



Weston Solutions, Inc.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606
(312) 424-3300 fax: (312) 424-3330
www.westonsolutions.com



326982

April 3, 2007

Mr. Thomas Cook (SE-5J)
U.S. EPA
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Ingersoll Removal Site
Geoprobe and Soil Sampling Event Letter Report, Revision 0
Chicago, Cook County, Illinois
TDD: S05- 0702-014
WO#: 20405.012.008.0156.00
DCN: 156-2A-AAMO

Dear Mr. Cook:

On February 27, 2007, the United States Environmental Protection Agency (U.S. EPA), the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START), and the Environmental Quality Management (EQM) Emergency and Rapid Response Services (ERRS) contractor mobilized to the Ingersoll Site (the Site) in Chicago, Illinois, to perform a subsurface soil investigation and collect soil samples. The Geoprobe® and soil sampling investigation was performed to locate and characterize any subsurface oil, metal, or polychlorinated biphenyl (PCB) contamination on Site.

BACKGROUND

The Site, located at 1000 West 120th Street in Chicago, Cook County, Illinois, is bordered by 119th Street to the north, Morgan Street to the east, 120th Street to the south, and vacant industrial properties to the west (Figures 3-1 and 3-2). The Meridian coordinates for the Site are 41°40'35" North and 87°38'49" West. The Site is approximately 12 acres and includes 38 interconnected, vacant buildings; a water tower; and a spray pond. A fire in the Summer of 2004 destroyed a portion of the former administration areas located in the southeast portion of the Site. Evidence of vandalism at the Site, in the form of broken windows, compromised fencing, graffiti, and stripped wiring, is extensive.

The Site has a 90-year history of industrial machining and oil use. BorgWarner, Inc., purchased the Site in 1929, and, in that same period, acquired Ingersoll Steel & Disc Company, a manufacturer of agricultural accessories including disc blades. According to former BorgWarner, Inc., employees, electronic enclosures, hospital beds, bathtubs, and sinks were also manufactured on site. During the Korean Conflict, wing tanks were built on site. During the Vietnam Conflict, bomb shell casings were made on site. Ingersoll Rand Company, Limited, currently owns the Site.

According to the Region V Superfund Environmental Justice Analysis, the area within one mile of the Site has a population that is 98 percent minority. This percentage meets the Region V demographic criterion for identifying an environmental justice case.

Between 1992 and 2004, several environmental investigations had been performed at the Site to document contamination. The investigations documented the following Site contamination:

- Surface and sub-surface oil- and metal-contaminated soils and PCB contamination inside buildings in areas where transformers had been located;
- Concentrations of lead in soil (up to 0.15 milligrams per kilogram [mg/kg]), and 1,1-dichloroethane in groundwater (0.15 milligrams per liter) at the Site that exceeded Illinois Pollution Control Board Class II criteria for soil and groundwater, respectively.
- Concentrations of semi-volatile organic compounds (SVOC), metals, and PCBs in Site soils that exceeded the Illinois Tiered Approach to Corrective Action Objectives (TACO) Tier 1 remediation objectives for soil, based on the ingestion exposure route for industrial-commercial properties;
- Concentrations of PCBs on floors in six of the 13 transformer rooms that were high enough to be regulated by the Toxic Substances Control Act; and
- Asbestos in tile mastic and pipe insulation.

U.S. EPA, WESTON START, and ERRS mobilized to the Site on January 16, 2006, to begin removing asbestos-containing material (ACM) from buildings; removing oils, sludges, and PCB oils from tanks, pits, and vaults; cleaning surfaces with known PCB contamination; and excavating PCB-contaminated soil and oil.

Removal activities were performed through November 10, 2006, but not all areas of the Site were able to be thoroughly addressed by that date. ERRS arranged for the transportation and

disposal of 560,770 gallons of non-hazardous wastewater; 145,280 kilograms of volatile organic compound (VOC)-, SVOC-, metal-, and PCB-contaminated oil and wastewater; 270 cubic yards of ACM debris; and 1,100 cubic yards of low-level PCB-contaminated debris.

Additional site background and removal information can be found in the Federal On-Scene Coordinator's Report, and WESTON's December 22, 2006, report, *Comprehensive Environmental Response, Compensation, and Liability Act Removal Action at the Ingersoll Site*.

SUMMARY OF GEOPROBE AND SAMPLING ACTIVITIES

On February 27, 2007, U.S. EPA On-Scene Coordinator Mr. Thomas Cook, WESTON START member Mr. Jay Rauh, EQM Response Manager (RM) Mr. Bob Armstrong, and EQM Geoprobe operator Mr. Stuart Wilkinson mobilized to the Site to begin the Geoprobe and sampling activities. The team proceeded to investigate subsurface conditions throughout the Site using the Geoprobe and collected biased samples of the subsurface soil for analysis of metals and PCBs.

Fifty-one boring locations were pre-selected in areas of the Site that were not investigated during the 2006 removal action. The boring locations were based on a 50-foot by 50-foot grid over the portion of the Site where buildings and facility structures are or were located. Additional boring locations were selected during drilling operations based on knowledge of the Site, boring results from nearby locations, and location accessibility. Each boring was advanced until refusal or native gray or brown clay was encountered. Seventy-nine borings were completed and logged. Boring locations are identified in Figure 1. Specific observations of subsurface soil made during boring activities include:

- Free product was observed in three borings (B-130-030207, B-131-030207, and B-169-030807), all located on the north end and inside of Building 412.
- Free product, hydrocarbon staining, or hydrocarbon odor were observed in 61 of 79 borings. At five of the remaining 18 boring locations, refusal occurred at or shallower than three feet below ground surface (bgs); therefore, evidence of oil more than three feet bgs would not have been observed.
- Oil or stained soil, where present, were typically visible in the soil immediately beneath the concrete slab at the ground surface, and/or within the interval of two to eight feet bgs. Occasionally, a second layer of oil or staining was present at six to eight feet bgs, separated from the first by a layer of clay or other fill.

- Free product, an oily sheen, or hydrocarbon staining were observed as deep as 11 feet bgs.
- Fill material was typically sandy silt, brick fragments, black and brown clay, or gravel. Paint chips, cinders, tar, and oxidized metal were occasionally observed in the fill.
- Native brown or gray clay was typically encountered at eight to 12 feet bgs.
- Groundwater, where present, was observed in a sandy layer at five to nine feet bgs. An oily sheen was noted on the groundwater in two borings.
- Fill material from the two to five feet bgs interval at boring locations B-157-030607 and B-179-030907, both south of Building 912, was comprised of unknown pink, green, and purple granules.
- Product-containing vaults or pits were observed inside Building 1018, north of Building 1018, west of Building 1017 and former Building 920, and inside Building 1014.

One or two soil samples were collected from each boring per the site-specific Sampling and Analysis Plan (WESTON, 2007). Samples were biased to the depth interval that appeared to be the most contaminated by visual inspection. A MultRAE five-gas monitor was also used to screen soil cores for the presence of VOCs, but no readings were recorded above background levels. If no contamination was evident in the boring, the sample was collected from the interval closest to the ground surface.

Two samples were also collected of free product. Sample OIL-1-030807 was collected from a pit north of the east end of Building 1018. Sample OIL-2-030807 was collected from a pit located inside Building 1014.

The team completed Geoprobe and soil sampling activities and demobilized from the Site on March 9, 2007. Seventy-nine borings were completed. Eighty investigative soil samples and two oil samples were delivered, under chain of custody, to Microbac Laboratory in Merrillville, Indiana, for analysis. All soil samples were analyzed for total Resource Conservation and Recovery Act metals and PCBs. Oil samples were analyzed for PCBs, only.

SOIL AND OIL SAMPLING RESULTS

Analytical results for all samples are presented in Tables 1, 2, and 3. Results for metals and PCBs in soil were compared to TACO section 742 appendix B, Tier I Industrial-Commercial criteria for inhalation and ingestion routes of exposure. Note that in TACO section 742

appendix B, Tier I Industrial-Commercial criteria for the ingestion route of exposure for lead changed from 400 mg/kg to 700 mg/kg in March 2007. The new criteria were used to evaluate the results of the investigation and soil sampling. Results for PCBs in oil were compared to the Toxic Substances Control Act Waste Characterization Standard (40 Code of Federal Regulations Part 761). Analytical results exceeding regulatory criteria are shown on Figure 2.

Significant results from PCB sampling include:

- PCB concentrations exceed regulatory criteria in soil sample B-110-022807 (190 mg/kg). This sample was collected from the southeast side of the Site, inside Building 1014, at a depth up to nine feet bgs.
- PCB concentrations exceed regulatory criteria in oil sample OIL-2-030807 (530 mg/kg). This sample was collected from a pit located inside Building 1014.
- Other detections of PCBs in soil range from 0.038 mg/kg to 0.35 mg/kg. These samples were collected from borings concentrated in the southeast part of the Site and inside and south of Building 912.

Significant results from metals sampling include:

- Lead concentrations exceed regulatory criteria in soil sample B-174-030807 (1,400 mg/kg). This sample was collected south of Building 912, beneath an overhead crane.
- Lead concentrations exceeding 400 mg/kg were detected in samples B-100-022707 (400 mg/kg), B-108-022707 (400 mg/kg), B-116-022807 (560 mg/kg), B-107-030107 (670 mg/kg), and B-168-030807 (680 mg/kg). These samples were collected from the east side of the Site, west of Building 924, and Building 912's western interior area.
- Elevated concentrations of metals were identified throughout the Site, except in the south and southwest portions. However, no other metals were detected in soils at levels above the regulatory criteria.

During the 2006 removal action that was completed at the Site, soil boring and sampling was completed in areas that focused on Buildings 1017 and 513, and the northern portions of Buildings 1014, 1012, and 515. Results from this sampling are depicted in Figure 3. A complete description of the 2006 sampling event and results are provided in the Federal On-Scene Coordinator's Report and WESTON's December 22, 2006, report *Comprehensive Environmental Response, Compensation, and Liability Act Removal Action at the Ingersoll Site*.

CONCLUSIONS

This soil boring and sampling investigation determined the extent of oil, PCBs, and metals contamination in subsurface soils on site. Noteworthy findings include:

- Free product, an oily sheen, or hydrocarbon staining were observed as deep as 11 feet bgs throughout the Site.
- Product-containing vaults or pits were observed inside Building 1018, north of Building 1018, west of Building 1017 and former Building 920, and inside Building 1014.
- High concentrations of PCBs are most prevalent at the east end of the Site, in oil and soil from inside and underneath Building 1014 at soil depths of up to nine feet bgs.
- Lower levels of PCBs were detected in samples from the southeast portion of the Site and inside and south of Building 912.
- High concentrations of lead were identified in soil south, west, and inside of Building 912, west of Building 924, and on the east side of the Site.
- Elevated concentrations of metals were identified throughout the Site, except in the south and southwest portions.

If you have any questions or concerns, please contact me at (312) 424-3300.

Very truly yours,
Weston Solutions, Inc.



For Jay Rauh
START Site Lead

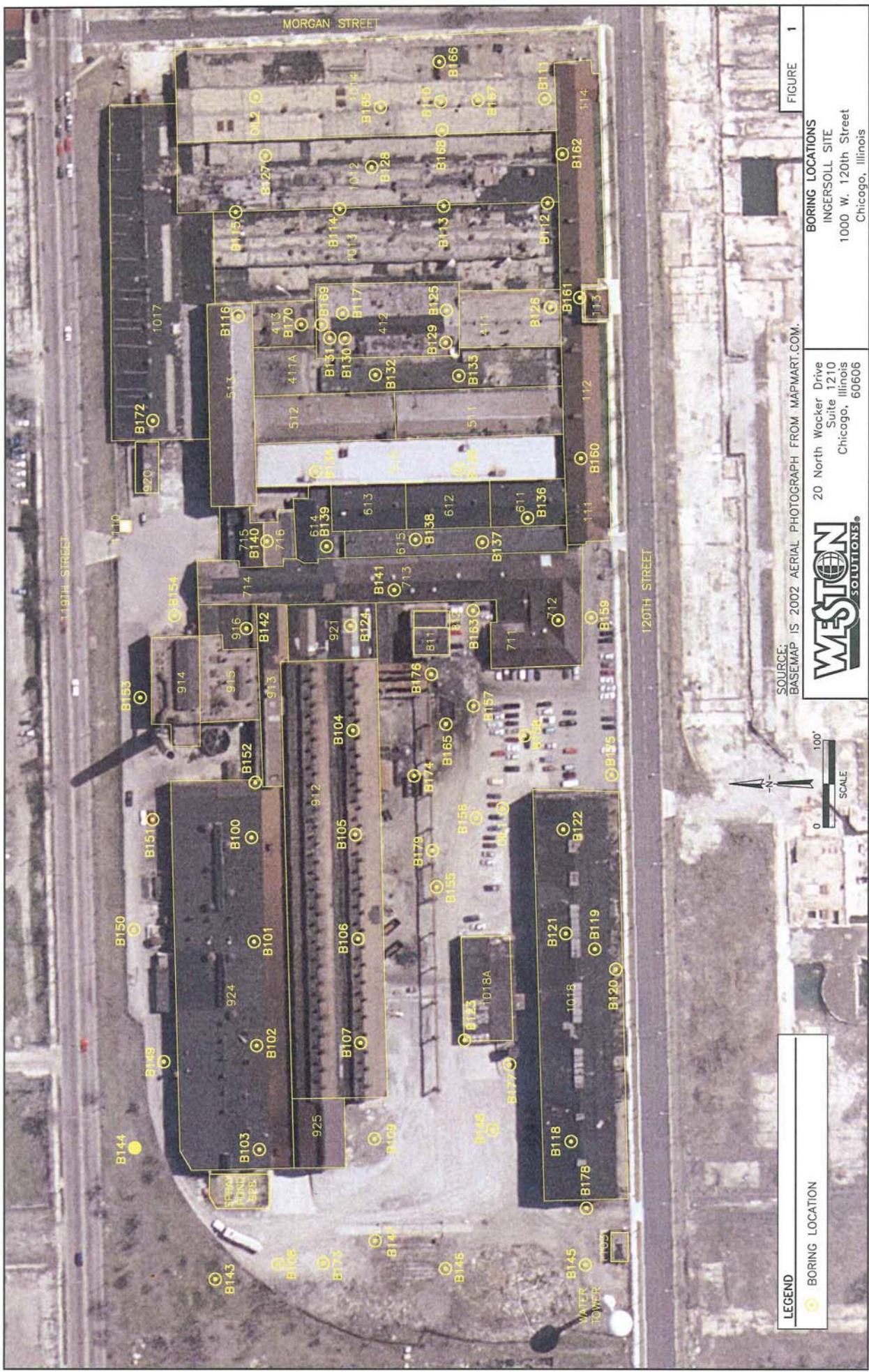
cc: Gail Stanuch, U.S. EPA Region V
Site files

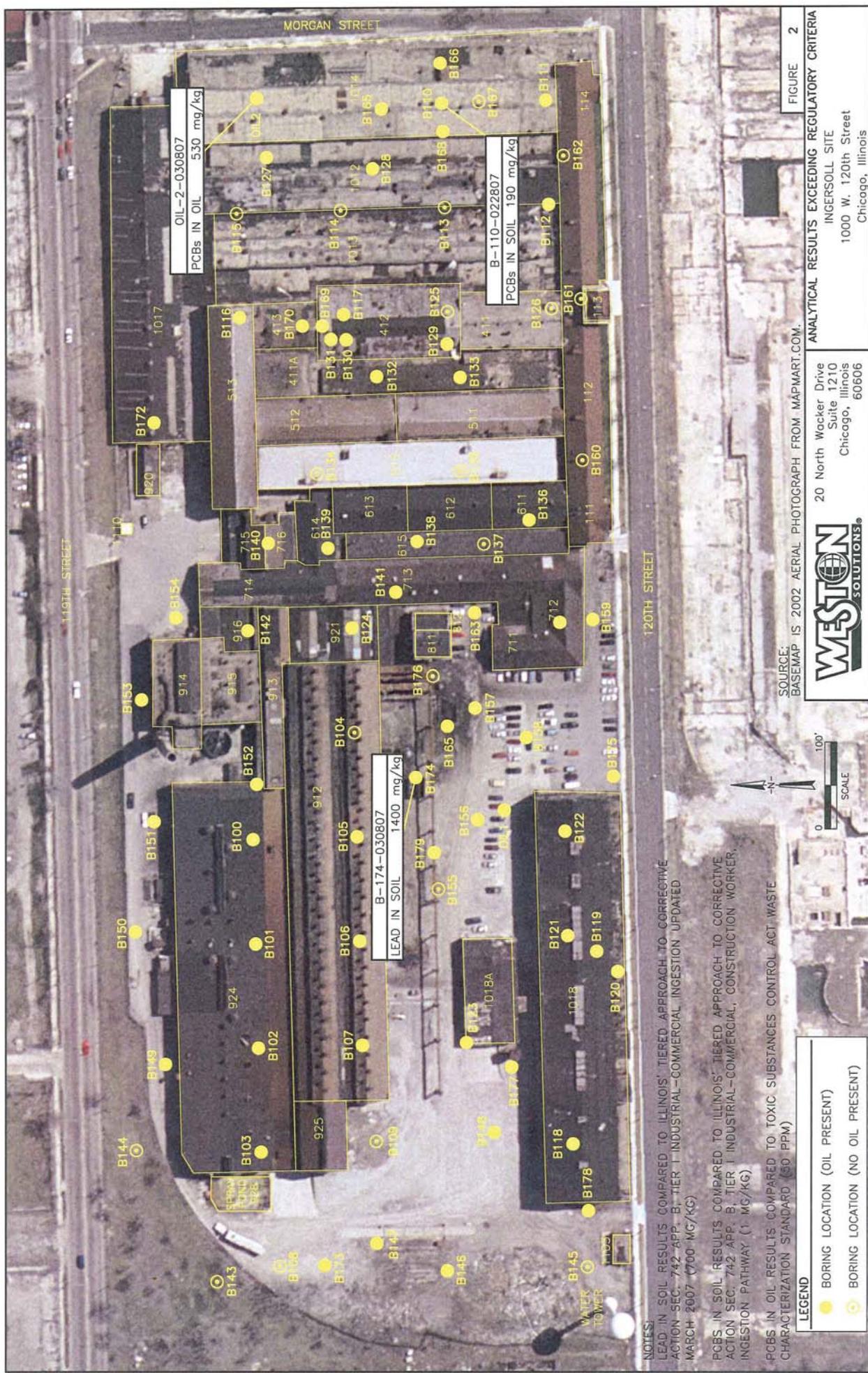
Attachments:

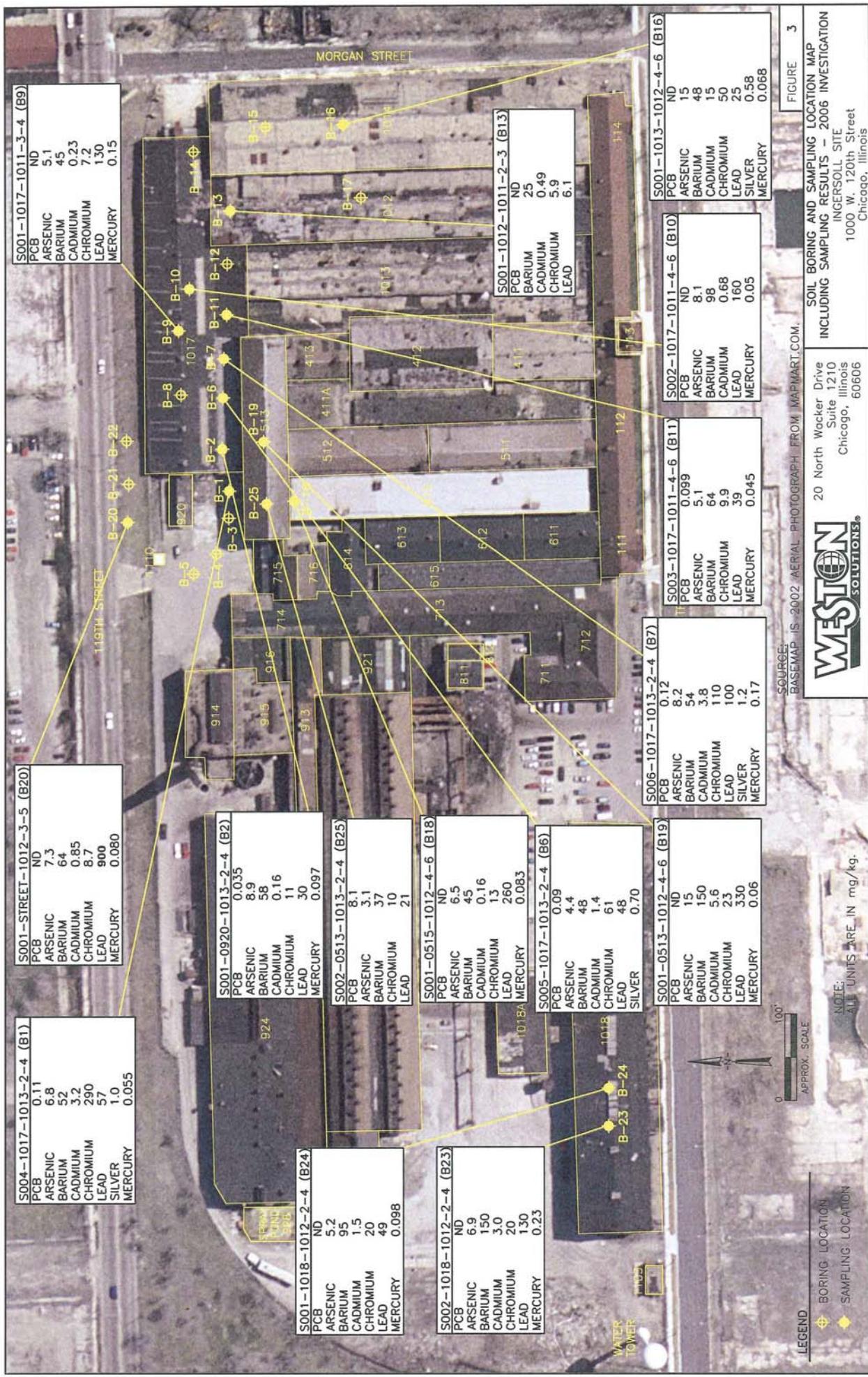
- A – Figures
- B – Tables
- C – Photographic Documentation
- D – Boring Logs
- E – Analytical Results

ATTACHMENT A

FIGURES







ATTACHMENT B

TABLES

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	31	5.5	4.4	4.4
Barium	mg/kg	140,000	910,000	38	61	44	38
Cadmium	mg/kg	2,000	2,800	76	ND	0.15	ND
Chromium	mg/kg	6,100	420	260	19	13	11
Lead	mg/kg	700	NL	400	35	7.7	8.6
Mercury	mg/kg	610	540,000	ND	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	1.9	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation
mg/kg - milligrams per kilogram
ND - Not detected at the method detection limit
NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	1.3	8	5.5	1.9
Barium	mg/kg	140,000	910,000	13	130	130	24
Cadmium	mg/kg	2,000	2,800	ND	4.9	2.9	24
Chromium	mg/kg	6,100	420	4.3	32	29	0.94
Lead	mg/kg	700	NL	3.8	87	400	36
Mercury	mg/kg	610	540,000	ND	ND	0.29	8.6
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	5.5	ND	4.3	5
Barium	mg/kg	140,000	910,000	110	5.5	40	19
Cadmium	mg/kg	2,000	2,800	0.32	ND	0.4	0.57
Chromium	mg/kg	6,100	420	13	1.5	10	9.2
Lead	mg/kg	700	NL	31	1.6	180	16
Mercury	mg/kg	610	540,000	ND	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²	Results	Notes
Metals					
Arsenic	mg/kg	NL	1,200	5.7	3.7
Barium	mg/kg	140,000	910,000	82	77
Cadmium	mg/kg	2,000	2,800	0.6	0.31
Chromium	mg/kg	6,100	420	12	10
Lead	mg/kg	700	NL	93	30
Mercury	mg/kg	610	540,000	ND	0.045
Selenium	mg/kg	10,000	NL	ND	ND
Silver	mg/kg	10,000	NL	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	9.1	4.1	4.4	0.54
Barium	mg/kg	140,000	910,000	500	64	39	18
Cadmium	mg/kg	2,000	2,800	14	ND	1.6	ND
Chromium	mg/kg	6,100	420	76	11	9.9	5.4
Lead	mg/kg	700	NL	670	16	430	82
Mercury	mg/kg	610	540,000	0.23	0.35	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	1.9	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²	Metals				
				Sample Name	Sampling Date	Sample Matrix	Location	Sample Interval (feet)
Arsenic	mg/kg	NL	1,200	4.6	7.8	7.8	B-127-030207 DUP	B-117-030207
Barium	mg/kg	140,000	910,000	61	590	48		
Cadmium	mg/kg	2,000	2,800	0.51	1.7	5.7		
Chromium	mg/kg	6,100	420	9.8	10	8.6		
Lead	mg/kg	700	NL	250	220	230		
Mercury	mg/kg	610	540,000	ND	0.29	ND		
Selenium	mg/kg	10,000	NL	ND	ND	ND		
Silver	mg/kg	10,000	NL	ND	ND	0.73		

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	5.5	6.5	8.5	6.2
Barium	mg/kg	140,000	910,000	12	100	500	54
Cadmium	mg/kg	2,000	2,800	0.99	0.68	0.78	0.32
Chromium	mg/kg	6,100	420	5	12	22	12
Lead	mg/kg	700	NL	13	120	140	62
Mercury	mg/kg	610	540,000	ND	0.039	0.73	ND
Selenium	mg/kg	10,000	NL	ND	ND	17	ND
Silver	mg/kg	10,000	NL	ND	ND	7.4	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	5.5	3.3	3.2	4.7
Barium	mg/kg	140,000	910,000	55	12	43	20
Cadmium	mg/kg	2,000	2,800	4.3	1.9	0.43	0.36
Chromium	mg/kg	6,100	420	14	24	9.2	7.1
Lead	mg/kg	700	NL	120	35	17	9.2
Mercury	mg/kg	610	540,000	0.052	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	0.51	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	5	5.7	9.1	12
Barium	mg/kg	140,000	910,000	37	37	63	35
Cadmium	mg/kg	2,000	2,800	ND	0.57	1.4	1.1
Chromium	mg/kg	6,100	420	7.9	13	16	12
Lead	mg/kg	700	NL	10	29	53	13
Mercury	mg/kg	610	540,000	ND	ND	0.052	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	11	6.1	6	5.2
Barium	mg/kg	140,000	910,000	35	39	30	26
Cadmium	mg/kg	2,000	2,800	0.25	0.11	0.1	ND
Chromium	mg/kg	6,100	420	9	9.2	13	8.8
Lead	mg/kg	700	NL	14	52	27	14
Mercury	mg/kg	610	540,000	ND	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	8.5	4.6	12	4.5
Barium	mg/kg	140,000	910,000	57	43	71	49
Cadmium	mg/kg	2,000	2,800	3.1	ND	8.4	ND
Chromium	mg/kg	6,100	420	34	11	21	10
Lead	mg/kg	700	NL	120	9.6	280	9.8
Mercury	mg/kg	610	540,000	0.096	ND	0.19	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	9	9.2	5.1	4.9
Barium	mg/kg	140,000	910,000	100	49	11	7.3
Cadmium	mg/kg	2,000	2,800	3.4	0.71	ND	ND
Chromium	mg/kg	6,100	420	22	9.9	8.4	7.4
Lead	mg/kg	700	NL	67	110	7.9	9
Mercury	mg/kg	610	540,000	0.11	0.045	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	3.7	11	4.6	5
Barium	mg/kg	140,000	910,000	13	26	34	80
Cadmium	mg/kg	2,000	2,800	ND	0.33	ND	2.9
Chromium	mg/kg	6,100	420	7	14	11	12
Lead	mg/kg	700	NL	6.3	33	17	25
Mercury	mg/kg	610	540,000	ND	0.28	ND	0.12
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	4.4	7.7	4.4	6.6
Barium	mg/kg	140,000	910,000	47	24	14	18
Cadmium	mg/kg	2,000	2,800	ND	ND	ND	ND
Chromium	mg/kg	6,100	420	8.6	8.7	7.3	7.7
Lead	mg/kg	700	NL	16	12	7.8	14
Mercury	mg/kg	610	540,000	ND	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	9.8	6.8	6.4	23
Barium	mg/kg	140,000	910,000	1,300	9.2	12	14
Cadmium	mg/kg	2,000	2,800	6.3	0.46	ND	0.9
Chromium	mg/kg	6,100	420	79	3.1	8	8.1
Lead	mg/kg	700	NL	680	20	8.5	16
Mercury	mg/kg	610	540,000	0.033	ND	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	0.79	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Regulatory Level ²				
Metals							
Arsenic	mg/kg	NL	1,200	8.5	6.4	5.3	3.1
Barium	mg/kg	140,000	910,000	13	280	13	38
Cadmium	mg/kg	2,000	2,800	0.23	5.4	ND	ND
Chromium	mg/kg	6,100	420	9	17	8.8	9.6
Lead	mg/kg	700	NL	17	1,400	9	24
Mercury	mg/kg	610	540,000	ND	0.035	ND	0.15
Selenium	mg/kg	10,000	NL	ND	ND	ND	ND
Silver	mg/kg	10,000	NL	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion updated March 2007

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 1
Analytical Results for Metals
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Sample Interval (feet)	Regulatory Level ¹	Regulatory Level ²	
		3-6	2-6		
Metals					
Arsenic	mg/kg	NL	1,200	4.8	7.6
Barium	mg/kg	140,000	910,000	38	46
Cadmium	mg/kg	2,000	2,800	ND	1.6
Chromium	mg/kg	6,100	420	9.3	14
Lead	mg/kg	700	NL	8.6	23
Mercury	mg/kg	610	540,000	ND	ND
Selenium	mg/kg	10,000	NL	ND	ND
Silver	mg/kg	10,000	NL	ND	0.54

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Ingestion

²Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial Inhalation
mg/kg - milligrams per kilogram
ND - Not detected at the method detection limit
NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Interval (feet)	Sample Name	Sampling Date	Sample Matrix	Location	PCBs
Aroclor 1016	mg/kg	NL	ND	ND	B-100-022707	02/27/07	Soil	B-101	Aroclor 1016
Aroclor 1221	mg/kg	NL	ND	ND	B-102-022707	02/27/07	Soil	B-102	Aroclor 1221
Aroclor 1232	mg/kg	NL	ND	ND	B-102-022707 DUP	02/27/07	Soil	B-103	Aroclor 1232
Aroclor 1242	mg/kg	NL	ND	ND					Aroclor 1242
Aroclor 1248	mg/kg	NL	ND	ND					Aroclor 1248
Aroclor 1254	mg/kg	NL	ND	ND					Aroclor 1254
Aroclor 1260	mg/kg	NL	ND	ND					Aroclor 1260
Aroclor 1262	mg/kg	NL	ND	ND					Aroclor 1262
Aroclor 1268	mg/kg	NL	ND	ND					Aroclor 1268
Total PCBs	mg/kg	1	ND	ND					Total PCBs

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name
Aroclor 1016	mg/kg	NL	ND	ND	B-105-022707	02/27/07	B-106-022707	02/27/07	B-108-022707
Aroclor 1221	mg/kg	NL	ND	ND				ND	ND
Aroclor 1232	mg/kg	NL	ND	ND				ND	ND
Aroclor 1242	mg/kg	NL	ND	ND				ND	ND
Aroclor 1248	mg/kg	NL	ND	ND				ND	ND
Aroclor 1254	mg/kg	NL	ND	ND				ND	ND
Aroclor 1260	mg/kg	NL	ND	ND				ND	ND
Aroclor 1262	mg/kg	NL	ND	ND				ND	ND
Aroclor 1268	mg/kg	NL	ND	ND				ND	ND
Total PCBs	mg/kg	1	ND	ND				ND	190
NOTES:									
Results in shaded boxes exceed the regulatory level.									

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	4-6	1-5	4-6	4-6	4-8	4-8	5-7
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	ND	ND	ND	0.048	ND	ND	ND
Aroclor 1260	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	ND	ND	ND	ND	0.048	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Interval (feet)	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date
Aroclor 1016	mg/kg	NL	ND	ND	B-120-030107	03/01/07	B-121-030107	03/01/07	B-122-030107	03/01/07
Aroclor 1221	mg/kg	NL	ND	ND						
Aroclor 1232	mg/kg	NL	ND	ND						
Aroclor 1242	mg/kg	NL	ND	ND						
Aroclor 1248	mg/kg	NL	ND	ND						
Aroclor 1254	mg/kg	NL	ND	ND						
Aroclor 1260	mg/kg	NL	ND	ND						
Aroclor 1262	mg/kg	NL	ND	ND						
Aroclor 1268	mg/kg	NL	ND	ND						
Total PCBs	mg/kg	1	ND	ND						

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	1-7	4-6	1-7	2-4	3-6
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1260	mg/kg	NL	ND	ND	ND	ND	0.1	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	ND	ND	ND	ND	0.1	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	3-7	3-5	4-10	1-2	1-2
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	ND	ND	ND	ND	0.038
Aroclor 1260	mg/kg	NL	0.15	ND	ND	ND	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	0.15	ND	ND	ND	ND	0.038

NOTES:

Results in shaded boxes exceed the regulatory level.

¹ Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Interval (feet)	Sample Name	Sampling Date	Sampling Date	Sample Name	Sampling Date	Sampling Date	Sample Name	Sampling Date
Aroclor 1016	mg/kg	NL	ND	ND	B-134-030507	03/05/07	03/05/07	B-135-030507	03/05/07	03/05/07	B-136-030507	03/05/07
Aroclor 1221	mg/kg	NL	ND	ND								
Aroclor 1232	mg/kg	NL	ND	ND								
Aroclor 1242	mg/kg	NL	ND	ND								
Aroclor 1248	mg/kg	NL	ND	ND								
Aroclor 1254	mg/kg	NL	0.26	0.32								
Aroclor 1260	mg/kg	NL	ND	ND								
Aroclor 1262	mg/kg	NL	ND	ND								
Aroclor 1268	mg/kg	NL	ND	ND								
Total PCBs	mg/kg	1	0.26	0.32								

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	1-5	1-7	2-8	2-8	8-12	
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	ND	ND	ND	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling	Location	Sample Matrix	Sampling Date	Sample Name	Parameter
Aroclor 1016	mg/kg	NL	ND				ND	ND	ND
Aroclor 1221	mg/kg	NL	ND				ND	ND	ND
Aroclor 1232	mg/kg	NL	ND				ND	ND	ND
Aroclor 1242	mg/kg	NL	ND				ND	ND	ND
Aroclor 1248	mg/kg	NL	ND				ND	ND	ND
Aroclor 1254	mg/kg	NL	ND				ND	ND	ND
Aroclor 1260	mg/kg	NL	ND				ND	ND	ND
Aroclor 1262	mg/kg	NL	ND				ND	ND	ND
Aroclor 1268	mg/kg	NL	ND				ND	ND	ND
Total PCBs	mg/kg	1	ND				ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	0-6	1-8	2-6	1-5	
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	0.1	ND	ND	ND	ND
Aroclor 1260	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	ND	0.1	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	1-8	10-11	1-6	1-5	
Aroclor 1016	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1254	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1260	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND	ND	ND	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND	ND	ND	ND	ND
Total PCBs	mg/kg	1	ND	ND	ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Interval (feet)	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date
Aroclor 1016	mg/kg	NL	ND	ND	B-158-030707	03/07/07	B-159-030707	03/07/07	B-160-030707	03/07/07	B-161-030707	03/07/07
Aroclor 1221	mg/kg	NL	ND	ND								
Aroclor 1232	mg/kg	NL	ND	ND								
Aroclor 1242	mg/kg	NL	ND	ND								
Aroclor 1248	mg/kg	NL	ND	ND								
Aroclor 1254	mg/kg	NL	ND	ND								
Aroclor 1260	mg/kg	NL	ND	ND								
Aroclor 1262	mg/kg	NL	ND	ND								
Aroclor 1268	mg/kg	NL	ND	ND								
Total PCBs	mg/kg	1	ND	ND								

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date
Aroclor 1016	mg/kg	NL	ND	ND	B-164-030707	03/07/07	B-165-030707	03/07/07	B-166-030707	03/07/07
Aroclor 1221	mg/kg	NL	ND	ND						
Aroclor 1232	mg/kg	NL	ND	ND						
Aroclor 1242	mg/kg	NL	ND	ND						
Aroclor 1248	mg/kg	NL	ND	ND						
Aroclor 1254	mg/kg	NL	0.35	ND						
Aroclor 1260	mg/kg	NL	ND	ND						
Aroclor 1262	mg/kg	NL	ND	ND						
Aroclor 1268	mg/kg	NL	ND	ND						
Total PCBs	mg/kg	1	0.35	ND						

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	Sampling Interval (feet)	Sample Name	Sampling Date	Sample Name	Sampling Date	Sample Name	Sampling Date
Aroclor 1016	mg/kg	NL	ND	ND	B-170-030807	03/08/07	B-171-030807	03/08/07	B-172-030807	03/08/07
Aroclor 1221	mg/kg	NL	ND	ND						
Aroclor 1232	mg/kg	NL	ND	ND						
Aroclor 1242	mg/kg	NL	ND	ND						
Aroclor 1248	mg/kg	NL	ND	ND						
Aroclor 1254	mg/kg	NL	ND	ND						
Aroclor 1260	mg/kg	NL	ND	ND						
Aroclor 1262	mg/kg	NL	ND	ND						
Aroclor 1268	mg/kg	NL	ND	ND						
Total PCBs	mg/kg	1	ND	ND						

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 2
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
February 27 - March 9, 2007

Parameter	Units	Regulatory Level ¹	Sampling Interval (feet)	2-4	2-5	3-6	2-6
Aroclor 1016	mg/kg	NL		ND	ND	ND	ND
Aroclor 1221	mg/kg	NL		ND	ND	ND	ND
Aroclor 1232	mg/kg	NL		ND	ND	ND	ND
Aroclor 1242	mg/kg	NL		ND	ND	ND	ND
Aroclor 1248	mg/kg	NL		ND	ND	ND	ND
Aroclor 1254	mg/kg	NL		ND	ND	ND	ND
Aroclor 1260	mg/kg	NL		ND	ND	ND	ND
Aroclor 1262	mg/kg	NL		ND	ND	ND	ND
Aroclor 1268	mg/kg	NL		ND	ND	ND	ND
Total PCBs	mg/kg	1		ND	ND	ND	ND

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Illinois' Tiered Approach to Corrective Action sec. 742 app. B, Tier I Industrial-Commercial, Construction Worker, ingestion pathway

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

Table 3
Analytical Results for PCBs
Ingersoll Site
Chicago, Illinois
March 29, 2007

Parameter	Units	Sample Name	OIL-1-030807	OIL-2-030807
		Sampling Date	03/08/07	03/08/07
		Sample Matrix	Oil	Oil
		Location	Pit north of Building 1018	Pit inside Building 1014
		Regulatory Level¹		
PCBs				
Aroclor 1016	mg/kg	NL	ND	ND
Aroclor 1221	mg/kg	NL	ND	ND
Aroclor 1232	mg/kg	NL	ND	ND
Aroclor 1242	mg/kg	NL	ND	ND
Aroclor 1248	mg/kg	NL	ND	ND
Aroclor 1254	mg/kg	NL	ND	530
Aroclor 1260	mg/kg	NL	ND	ND
Aroclor 1262	mg/kg	NL	ND	ND
Aroclor 1268	mg/kg	NL	ND	ND
Total PCBs	mg/kg	50	ND	530

NOTES:

Results in shaded boxes exceed the regulatory level.

¹Toxic Substances Control Act Waste Characterization Standard (50 parts per million)

mg/kg - milligrams per kilogram

ND - Not detected at the method detection limit

NL - Not Listed

ATTACHMENT C

PHOTOGRAPHIC DOCUMENTATION



Site: Ingersoll

Photo Number: 1

Direction: Southwest

Subject: Location where sample OIL-2-030807 was collected

Date: 3/5/07

Photographer: Jay Rauh



Site: Ingersoll

Photo Number: 2

Direction: South

Subject: ERRS crew and Geoprobe at soil boring B-141-030607 in building 713

Date: 3/5/07

Photographer: Jay Rauh



Site: Ingersoll

Photo Number: 3

Direction: North

Subject: Soil boring B-157-030607

Date: 3/6/07

Photographer: Jay Rauh



Site: Ingersoll

Photo Number: 4

Direction: East

Subject: Soil boring B-171-030807

Date: 3/8/07

Photographer: Jay Rauh



Site: Ingersoll

Photo Number: 5

Direction: East

Subject: Soil boring B-169-030807

Date: 3/8/07

Photographer: Jay Rauh



Site: Ingersoll

Photo Number: 6

Direction: East

Subject: Soil boring B-179-030907

Date: 3/9/07

Photographer: Jay Rauh

ATTACHMENT D

BORING LOGS

B100



0802

PROJECT NAME AND LOCATION						PAGE NO.	HOLE NO.	
GEOLOGIC DRILL LOG			Tiger 5011					
START 2/27/67	FINISH 0800	DRILLER	DRILL METHOD 90 probe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 3' 9"		
LOGGER Rach	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				
SAMPLE NO. B-100-022707(273)	SAMPLE TYPE SPLIT SPOON	RECOVERY % 60%	ELEVU 0	DEPTH 0	GRAPHIC LOG	WELL CONSTRUCTION	DESCRIPTION Concrete	NOTES petroleum odor, oily no reading on multirad
1'								
2'								
3'								
4'								
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER						PAGE NO.	HOLE NO.	

R-101



1000

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ilgensol</i>			PAGE NO.	HOLE NO.	
START 2/27/07	FINISH 1000	DRILLER	DRILL METHOD <i>Geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 4' 1"		
LOGGER <i>Rauh</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	DESCRIPTION	NOTES
1000-2							<i>concrete</i>	
							<i>gray/brown clay fill</i>	
							<i>oily sandy fill</i>	
							<i>brown clay</i>	<i>oily</i>
							<i>10'</i>	
							<i>black</i>	
							<i>oily sand</i>	
							<i>refusal concrete</i>	<i>oily</i>
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENHISON CT = CUTTINGS OT = OTHER							PAGE NO.	HOLE NO.

B-102



1030

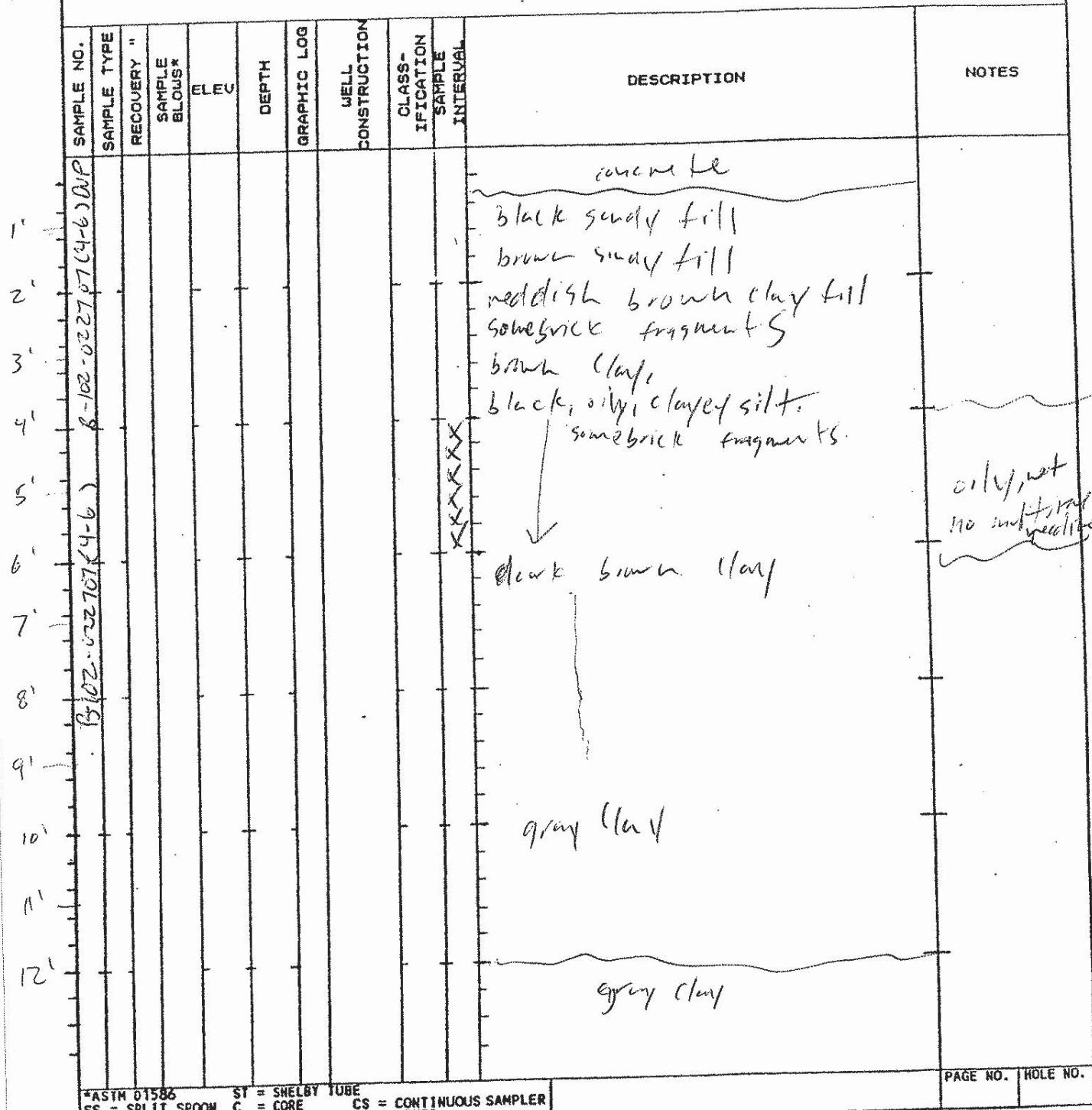
GEOLOGIC DRILL LOG

PROJECT NAME AND LOCATION

Ingersoll

PAGE NO. HOLE NO.

START 2/21/07	FINISH 1030	DRILLER	DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'
LOGGER Randy		TOP OF CASTING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

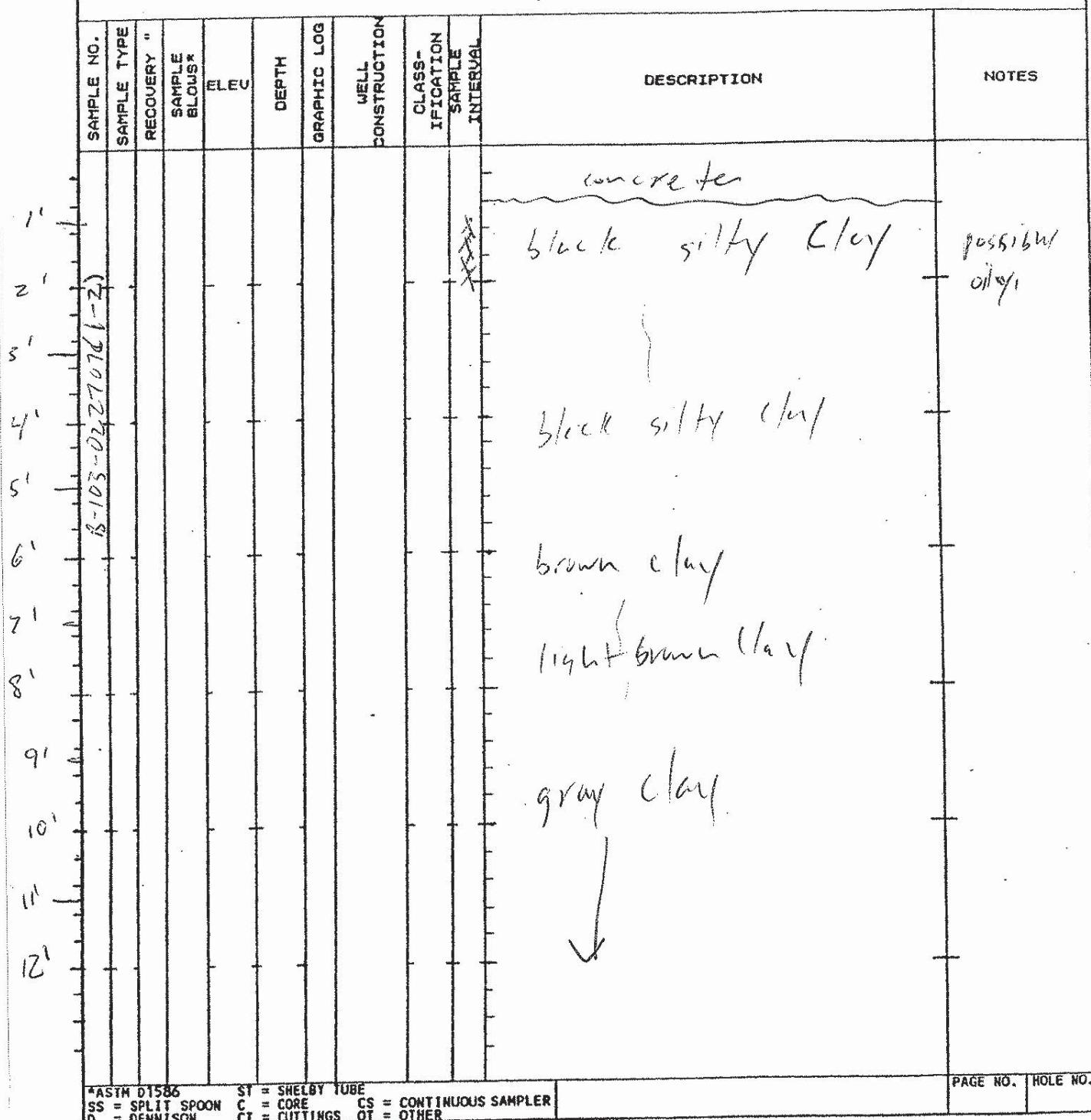


B103



1100

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ingerso 11</i>			PAGE NO.	HOLE NO.
START 2/27/09	FINISH 1100	DRILLER	DRILL METHOD <i>Coredrill</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'	
LOGGER <i>Ranch</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			



8-104



105

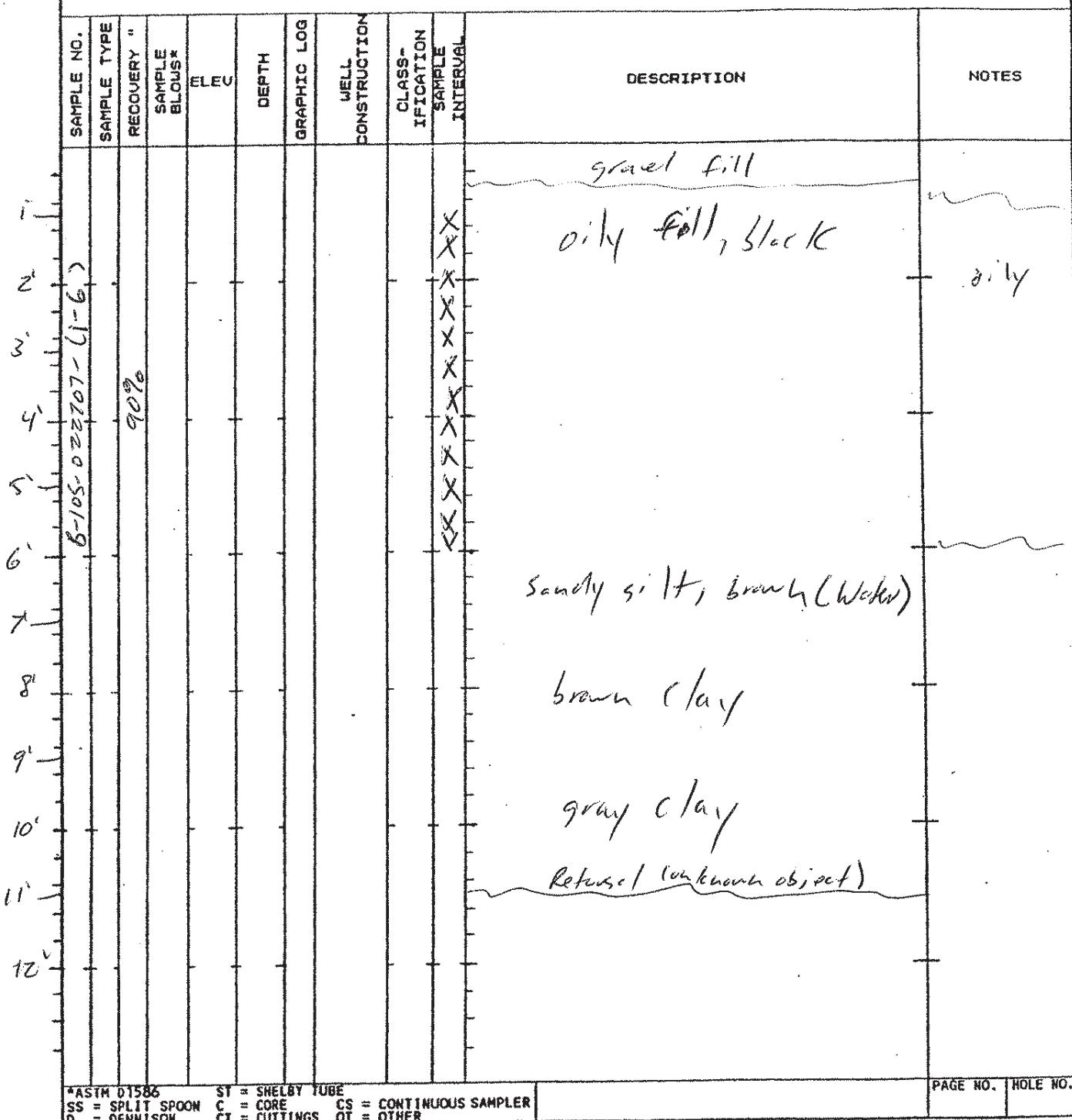
GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.		
START 2/27/07	FINISH 1135	DRILLER	DRILL METHOD <i>Wireprobe</i>	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH				
LOGGER <i>Rawh</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
<p><i>None</i></p> <p>2'</p> <p>Concrete</p> <p><u>refusal</u></p>											drilled through 2.5" of concrete refusal
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.

B-105



(1300)

PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
2/21/07	1300		geoprobe			11' 6"
LOGGER Rav L	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



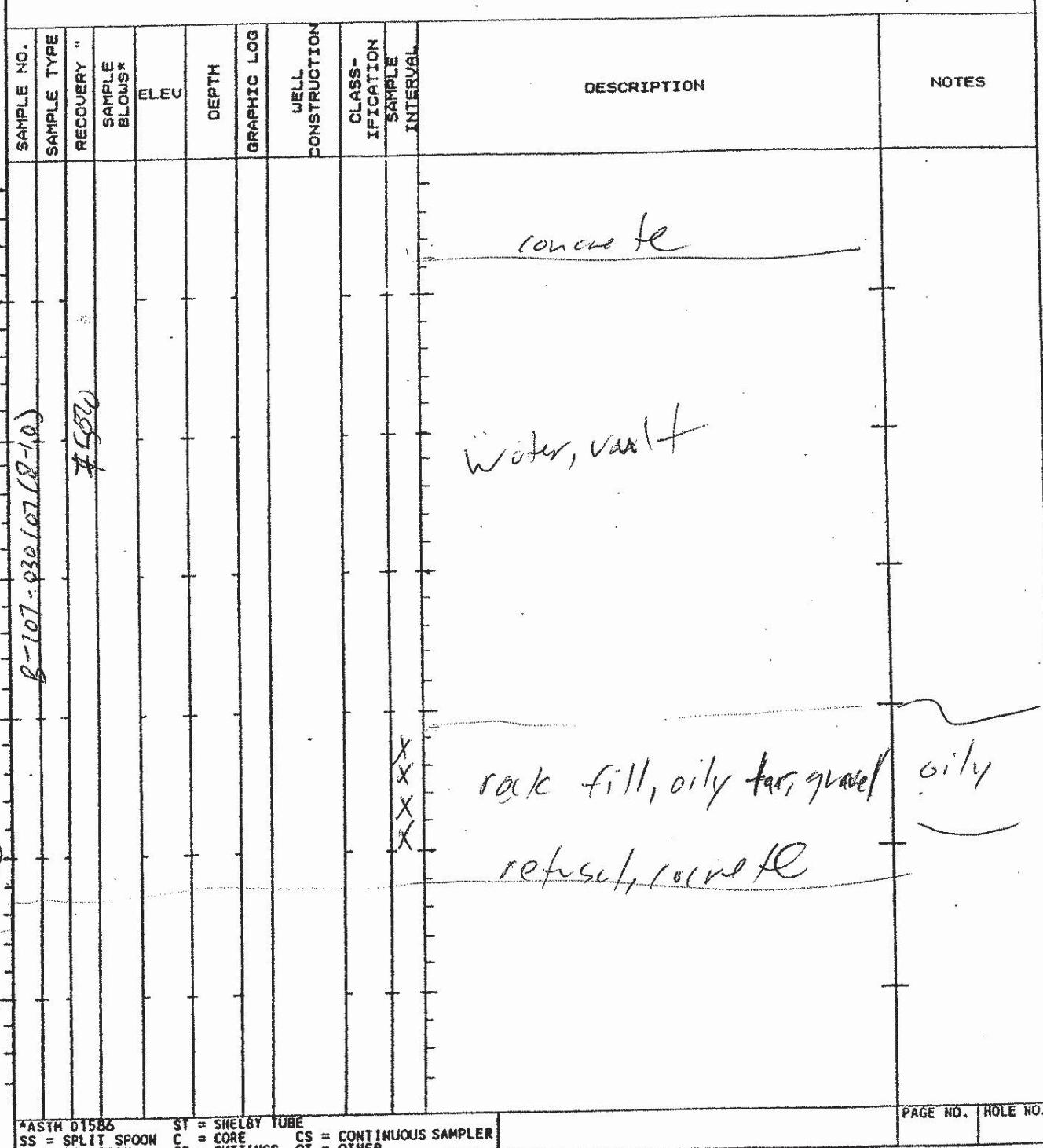


7400

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ingersoll				PAGE NO.	HOLE NO.		
START 2/27/09	FINISH 1400	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'				
LOGGER Rach	TOP OF CASTING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1'									concrete	
2'									black, oily fill	
3'										
4'										
5'										
6'										
7'										
8'										
9'										
10'										
11'										
12'										
6-106 - 022707 (Z-8) *ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									PAGE NO.	HOLE NO.

~~LEEDS~~

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Ingersoll	PAGE NO.	HOLE NO.
START 2/1/07	FINISH 1430	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 10' 6"
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-108



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.																																																																																																																																															
START 2/21/01	FINISH 1615	DRILLER		DRILL METHOD probe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'																																																																																																																																																
LOGGER Raul		TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED																																																																																																																																																		
<table border="1"> <thead> <tr> <th>SAMPLE NO.</th> <th>SAMPLE TYPE</th> <th>RECOVERY "</th> <th>SAMPLE ELOWS*</th> <th>ELEV.</th> <th>DEPTH</th> <th>GRAPHIC LOG</th> <th>WELL CONSTRUCTION</th> <th>CLASSIFICATION SAMPLE INTERVAL</th> <th>DESCRIPTION</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>B-108-022707(2-4)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- black silty fill</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- limestone gravel fill, white</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>- black/brown sandy silt</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>- fill. Some red brick</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>fragments</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>tight brown sand</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>brown silty clay saturated with water</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>brown clay</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>gray clay, some sand</td> <td></td> </tr> <tr> <td></td> </tr> <tr> <td colspan="9"> <small>*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER</small> </td> <td>PAGE NO.</td> <td>HOLE NO.</td> </tr> </tbody> </table>									SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE ELOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES	B-108-022707(2-4)									- black silty fill											- limestone gravel fill, white									X		- black/brown sandy silt									X		- fill. Some red brick									X		fragments									X													tight brown sand											brown silty clay saturated with water											brown clay											gray clay, some sand													<small>*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER</small>									PAGE NO.	HOLE NO.
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE ELOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES																																																																																																																																													
B-108-022707(2-4)									- black silty fill																																																																																																																																														
									- limestone gravel fill, white																																																																																																																																														
							X		- black/brown sandy silt																																																																																																																																														
							X		- fill. Some red brick																																																																																																																																														
							X		fragments																																																																																																																																														
							X																																																																																																																																																
									tight brown sand																																																																																																																																														
									brown silty clay saturated with water																																																																																																																																														
									brown clay																																																																																																																																														
									gray clay, some sand																																																																																																																																														
<small>*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER</small>									PAGE NO.	HOLE NO.																																																																																																																																													

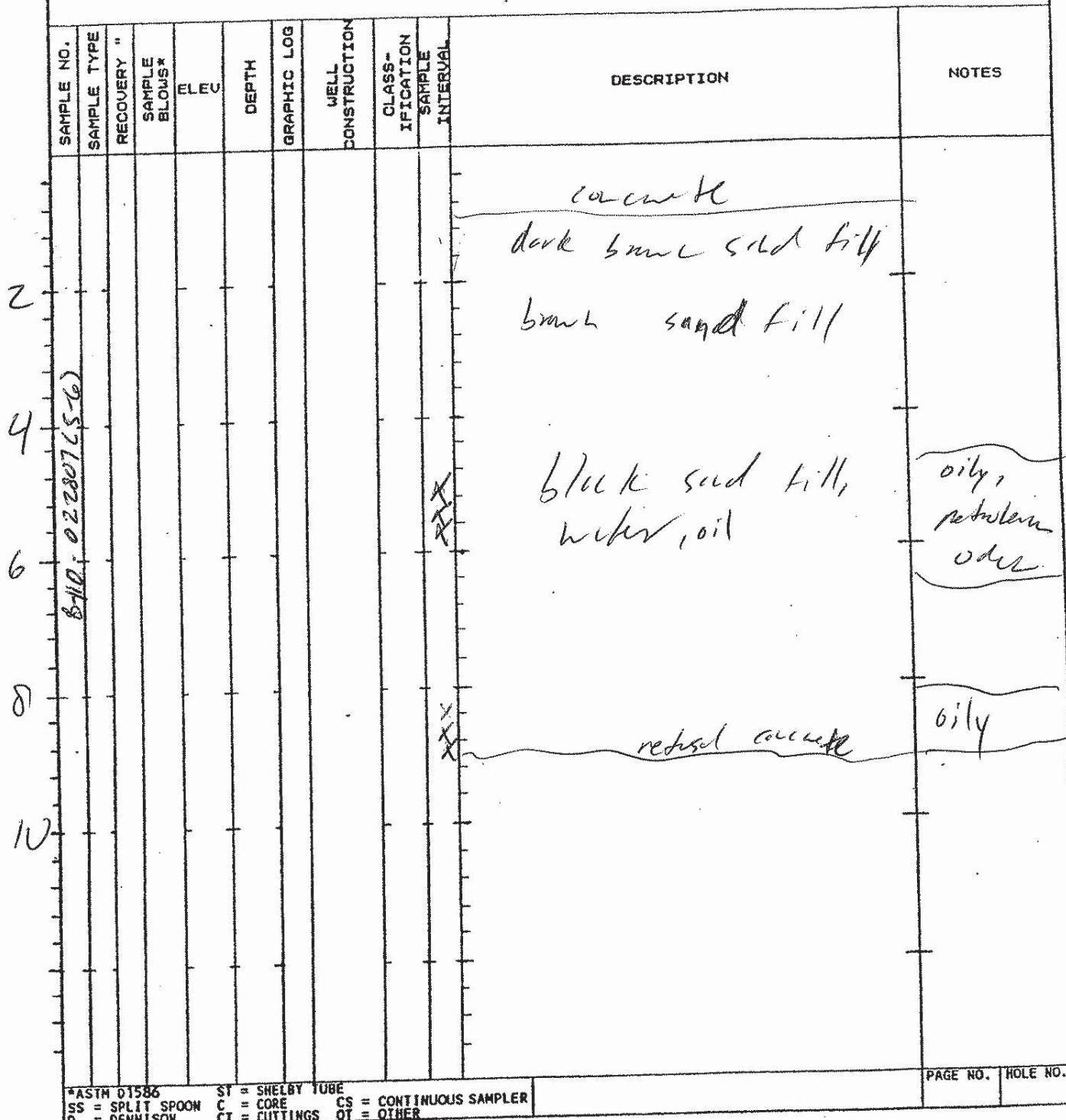
B-109



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.																																																							
START LOGGER	FINISH LOGGER	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH																																																								
		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED																																																										
0130	Rawh		geoponix			9'																																																								
<table border="1"> <thead> <tr> <th>SAMPLE NO.</th> <th>SAMPLE TYPE</th> <th>RECOVERY "</th> <th>SAMPLE BLOWS*</th> <th>ELEC</th> <th>DEPTH</th> <th>GRAPHIC LOG</th> <th>WELL CONSTRUCTION</th> <th>CLASSIFICATION SAMPLE INTERVAL</th> <th>DESCRIPTION</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>large white rock fill concreted white sand, w/ silt fill</td> <td>no oil</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>red sand, brick fragm + fill clay-brick mix</td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>brick fill, ash sc</td> <td></td> </tr> <tr> <td>10</td> <td></td> </tr> </tbody> </table>								SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES	2									large white rock fill concreted white sand, w/ silt fill	no oil	6									red sand, brick fragm + fill clay-brick mix		8									brick fill, ash sc		10										
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES																																																				
2									large white rock fill concreted white sand, w/ silt fill	no oil																																																				
6									red sand, brick fragm + fill clay-brick mix																																																					
8									brick fill, ash sc																																																					
10																																																														
*ASTM D1586 SS = SPLIT SPOON ST = SHELBY TUBE D = DENNISON C = CORE CT = CUTTINGS OT = OTHER CS = CONTINUOUS SAMPLER								PAGE NO.	HOLE NO.																																																					



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Elgersoll			PAGE NO.	HOLE NO.
START 0830	FINISH 9/18/01	DRILLER	DRILL METHOD geopulse	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 9'	
LOGGER Randy	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER		DATE MEASURED	



B-111



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.		
START 1000	FINISH 1180	DRILLER		DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER 0	TOTAL DEPTH 61			
LOGGER Rauls	TOP OF CASING ELEV.			GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	RECOVERY %	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
6111-022807(5-6)	60%								concrete fl	
									brown sandy fill	
									black sandy fill, oily	
										oily
									refuse, concrete	
*ASTM D1586 SS = SPLIT SPOON CT = SHELBY TUBE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									PAGE NO.	HOLE NO.

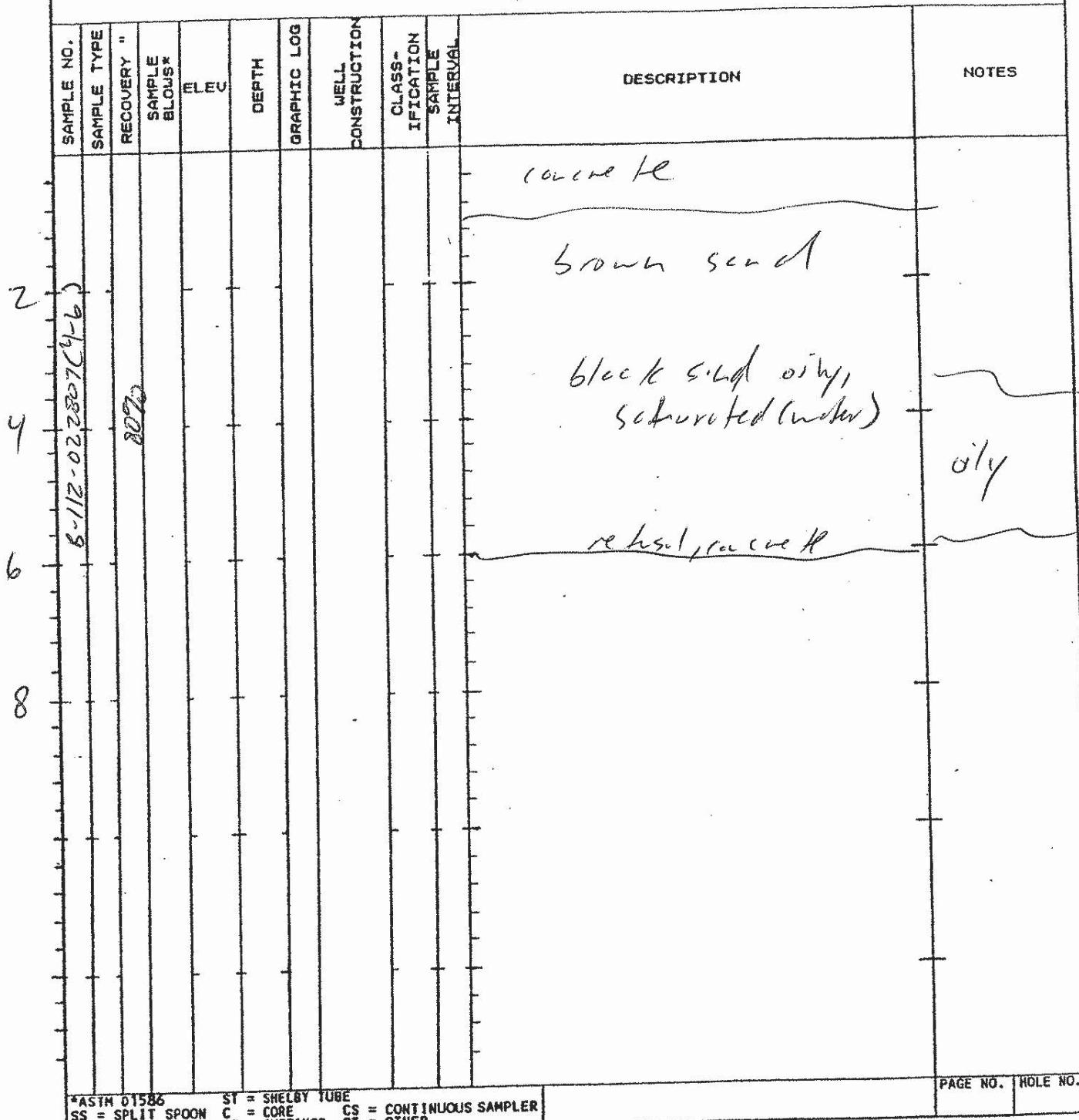
Handwritten notes and observations:

- Vertical scale on the left: 0, 2, 4, 6, 8.
- Handwritten sample numbers: 60% at 0m, X at 4m, XX at 5m.
- Handwritten descriptions and features: concrete fl, brown sandy fill, black sandy fill, oily, refuse, concrete.
- Handwritten total depth: 61.

B-11C



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Ingersoll 4			PAGE NO.	HOLE NO.
START 10/15	FINISH 2/28/01	DRILLER	DRILL METHOD Geophyte	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 61		
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-713

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.						
START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH						
1130	2/28/01		borehole			12'						
LOGGER		Lark	TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES	
B-113-022807(1-5)												
2									concrete			
4									white rocks			
5									gray fill		fill	
6									brick fragments, red			
7									sand with small			
8									brick fragments		✓	
9									brown sandy silt			
10									soaked with water			
11									brown clay			
12									gray clay			
*ASTM D1586 SS = SPLIT SPOON CT = CUTTINGS TUBE D = DENNISON CT = CUTTINGS OT = OTHER											PAGE NO.	HOLE NO.

B114



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ihsersoll</i>			PAGE NO.	HOLE NO.
START 2/28/01	FINISH 1230	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 3'	
LOGGER <i>Rock</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
									<i>concrete</i>	
									<i>refusal</i>	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

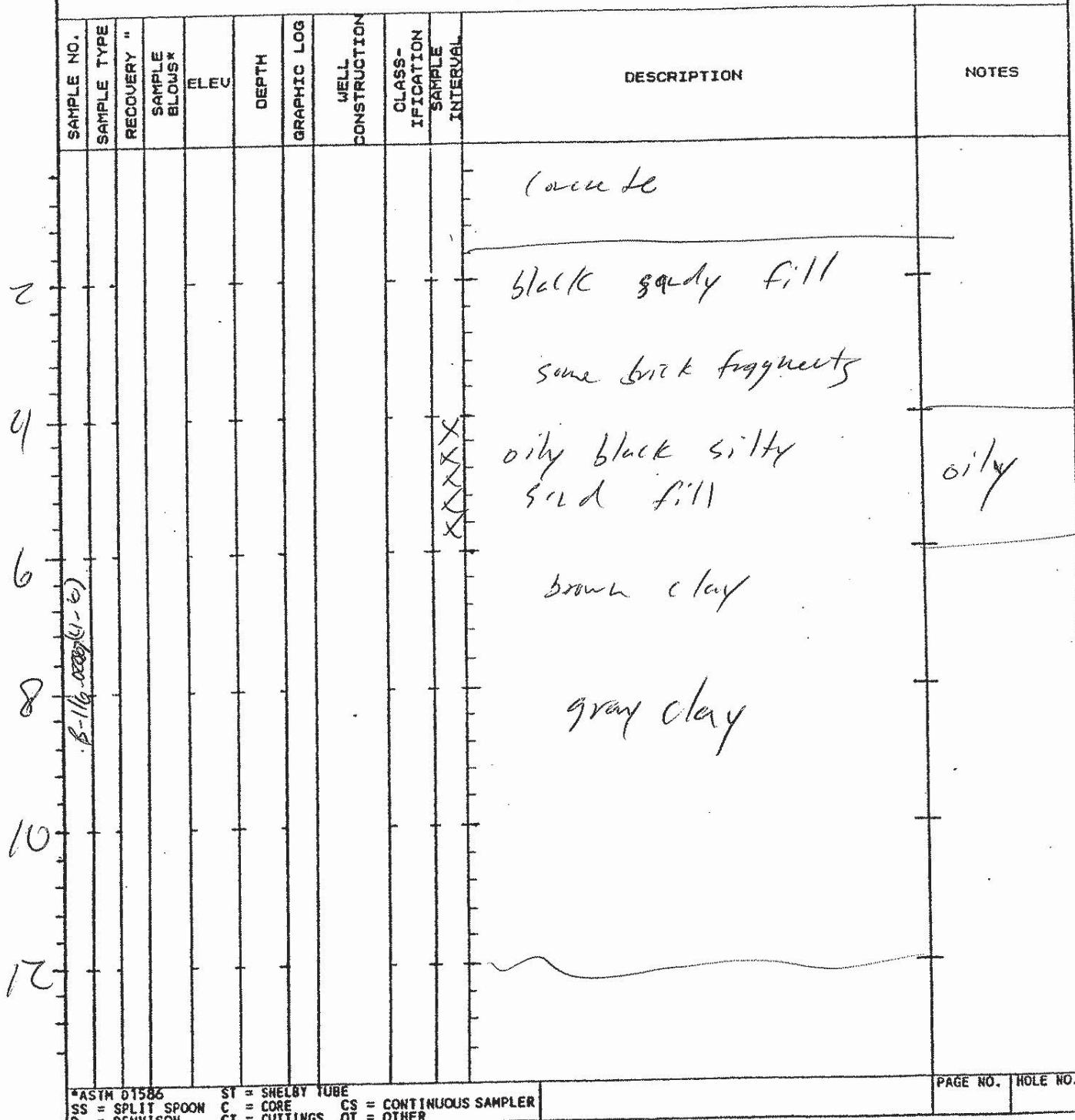


GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.		
START 1330	FINISH 2188	DRILLER Ingersoll		DRILL METHOD geopony	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 6'			
LOGGER Raul		TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. B-115-02280774-6	SAMPLE TYPE 602	RECOVERY %	SAMPLE BLOWNS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									limestone	60 visibly oil
2									crushed limestone fill, white	
3									Brown silty clay fill	
4								X	F sandy fill, streaked (HCO) brown, slight retrograde order	
5								X		
6								X	refined, concrete	
*ASTM D1586 SS = SPLIT SPOON D = DENNISON CT = CUTTINGS									PAGE NO.	HOLE NO.
ST = SHELBY TUBE C = CORE OT = OTHER CS = CONTINUOUS SAMPLER										

B116



PROJECT NAME AND LOCATION Tucson 11				PAGE NO.	HOLE NO.	
GEOLOGIC DRILL LOG		DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
START 1530	FINISH 2080	DRILLER	geoprobe			12'
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-117



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.					
START 1209	FINISH 3845	DRILLER	DRILL METHOD	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH					
		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED								
LOGGER Ran h												
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION	SAMPLE INTERVAL	DESCRIPTION		NOTES
2										concrete		rebar
4										black fill, some white rocks. possibly HC stains		HC oil ✓
6										red brick fragments		slight staining
8										black fill, silty		
										white bricks		
										black fill		
										red bricks		
										black sandy fill		
										brown sand		
										gray, clay, some sand		
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.	

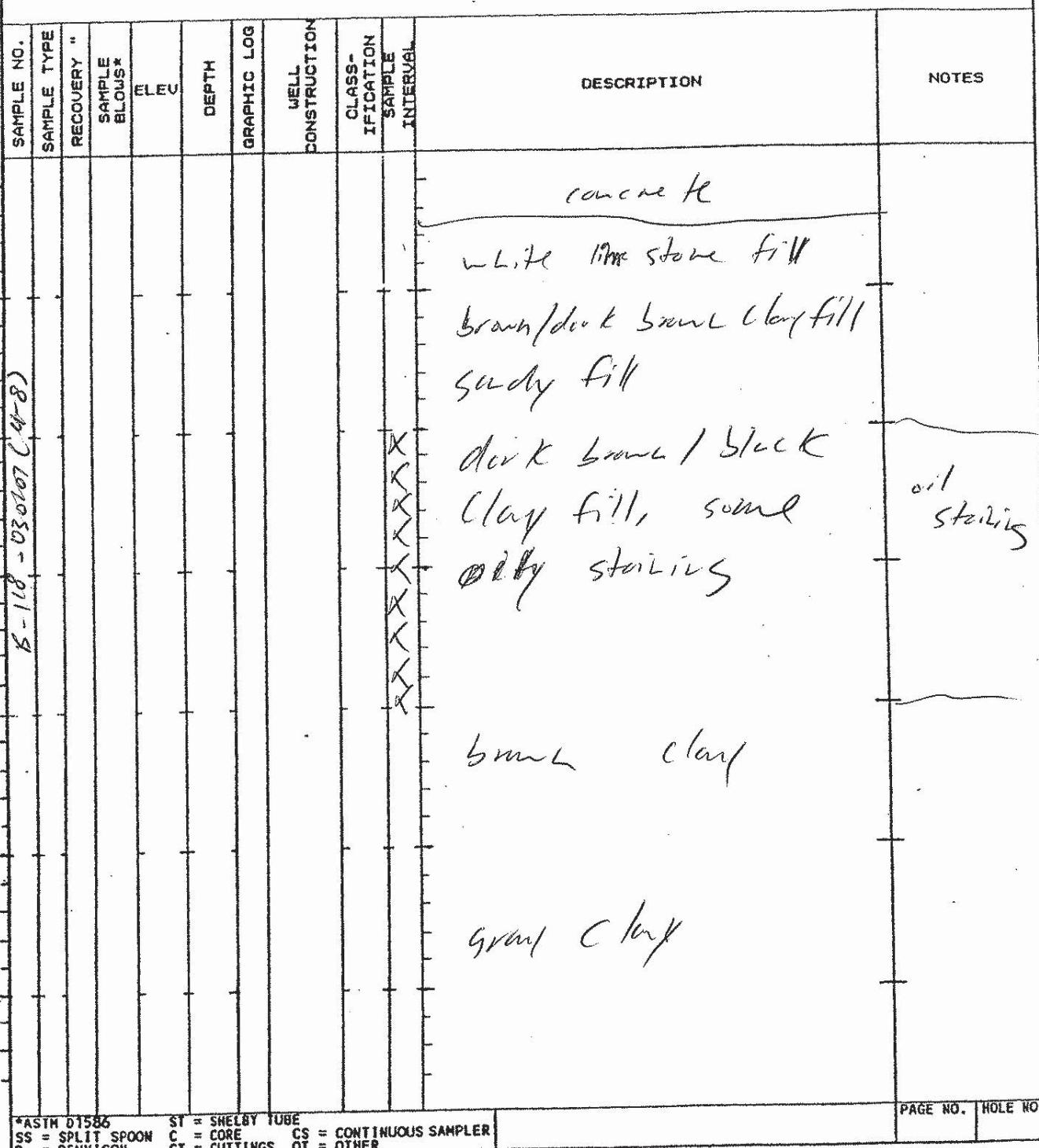
B-118



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.
START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH	
0730			geobore			12'	

3/1/10
Logger: Rach

TOP OF CASING ELEV.	GROUND/ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED
---------------------	------------------	---



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-119

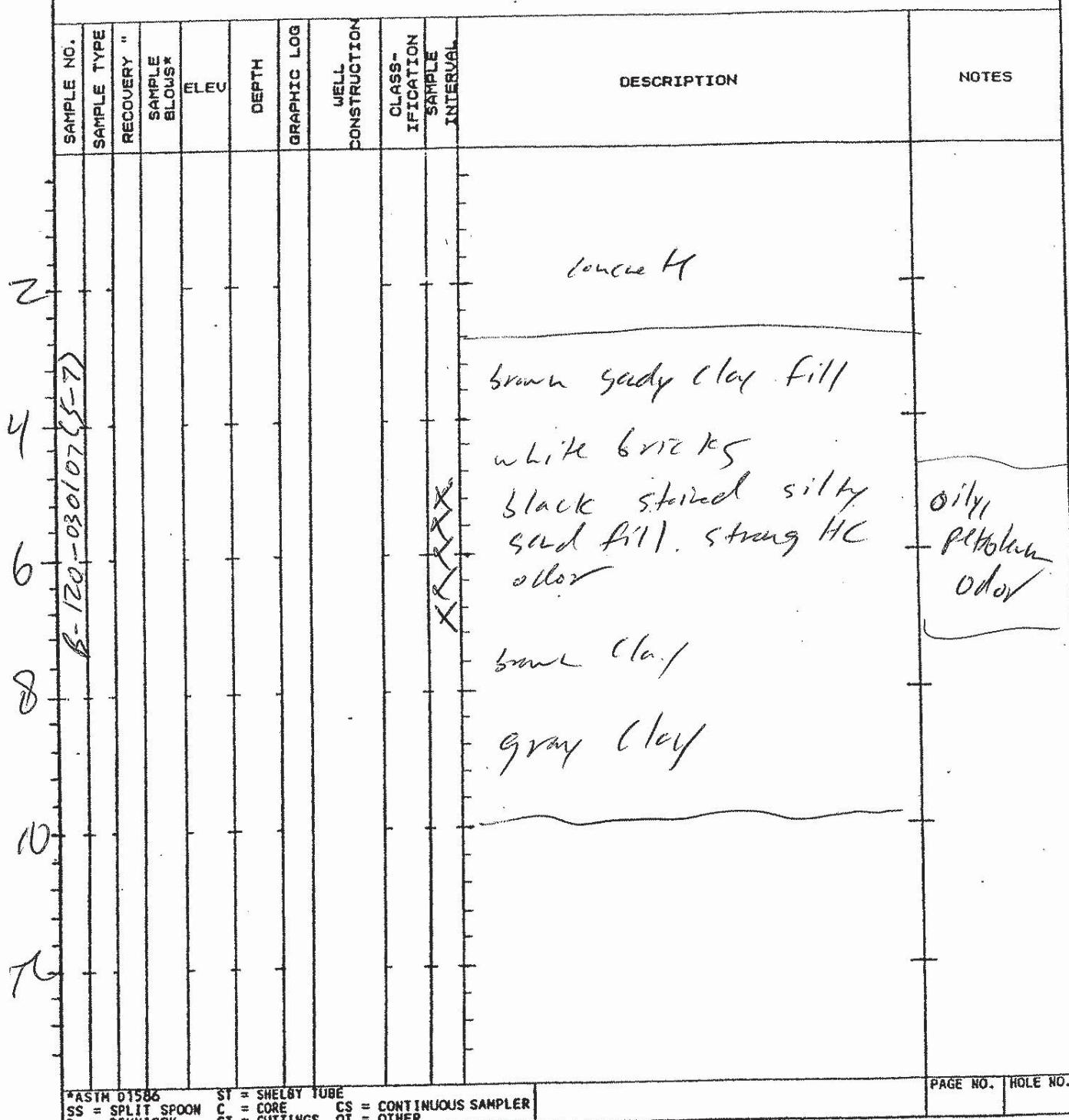


GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION <i>Dugsel</i>		PAGE NO.	HOLE NO.		
START 3/11/07	FINISH 0915	DRILLER	DRILL METHOD <i>Augerhole</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'			
LOGGER <i>Rocky</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	DESCRIPTION		NOTES	
RECOVERY "	SAMPLE BLOWN X				CLASSIFICATION				
					SAMPLE INTERVAL				
<p><i>Concrete fl</i></p> <p>2 brown clay fill, white bricks</p> <p>4 black silty, slight organic odor</p> <p>6 black clayey fill Strong organic odor oil staining</p> <p>8 gray clay</p>									
<small>*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER</small>								PAGE NO.	HOLE NO.

B-120



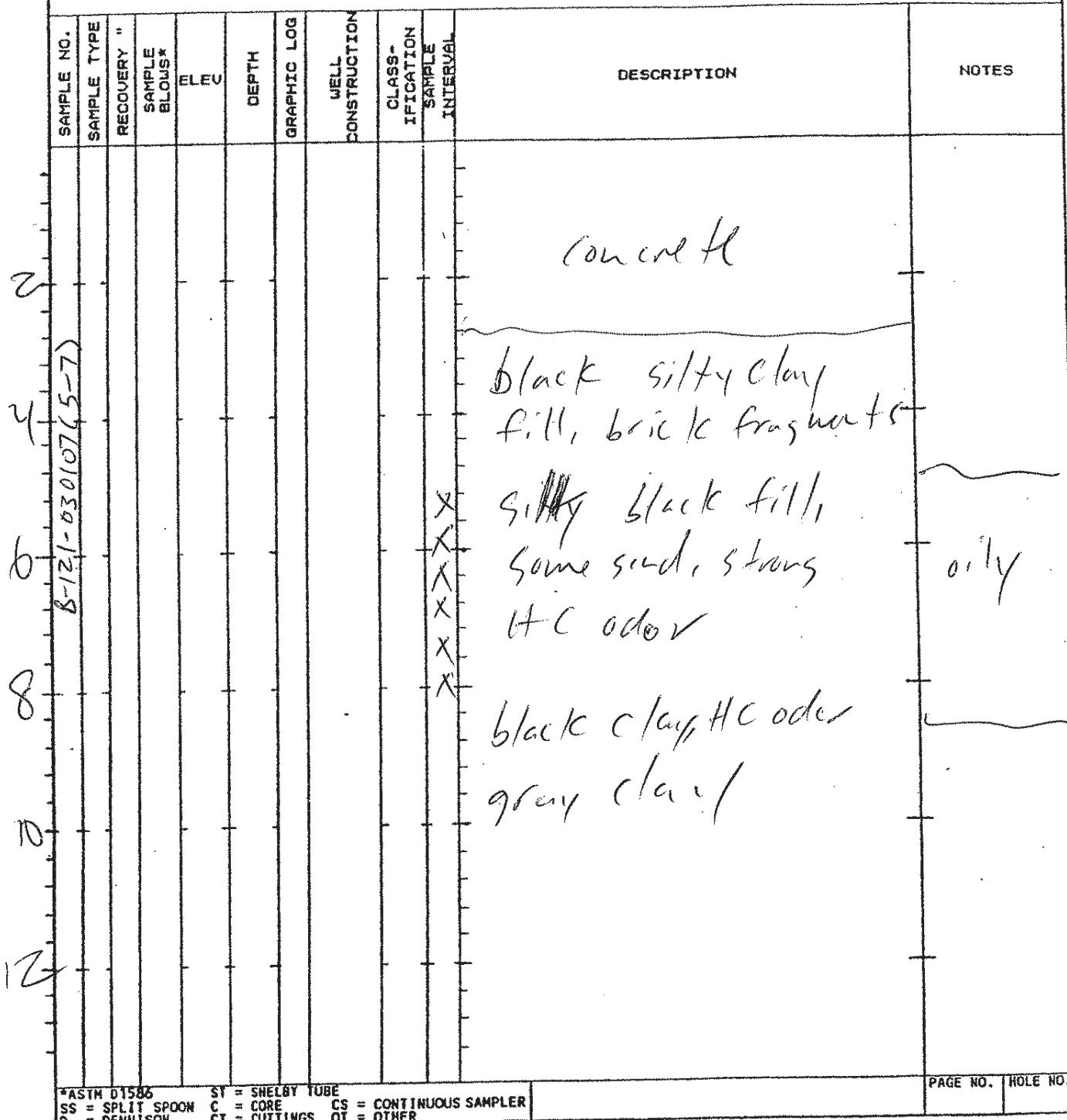
GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION	PAGE NO.	HOLE NO.	
START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
3/11/07	1030		Scrapie			10
Logger Raul		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



B-12)



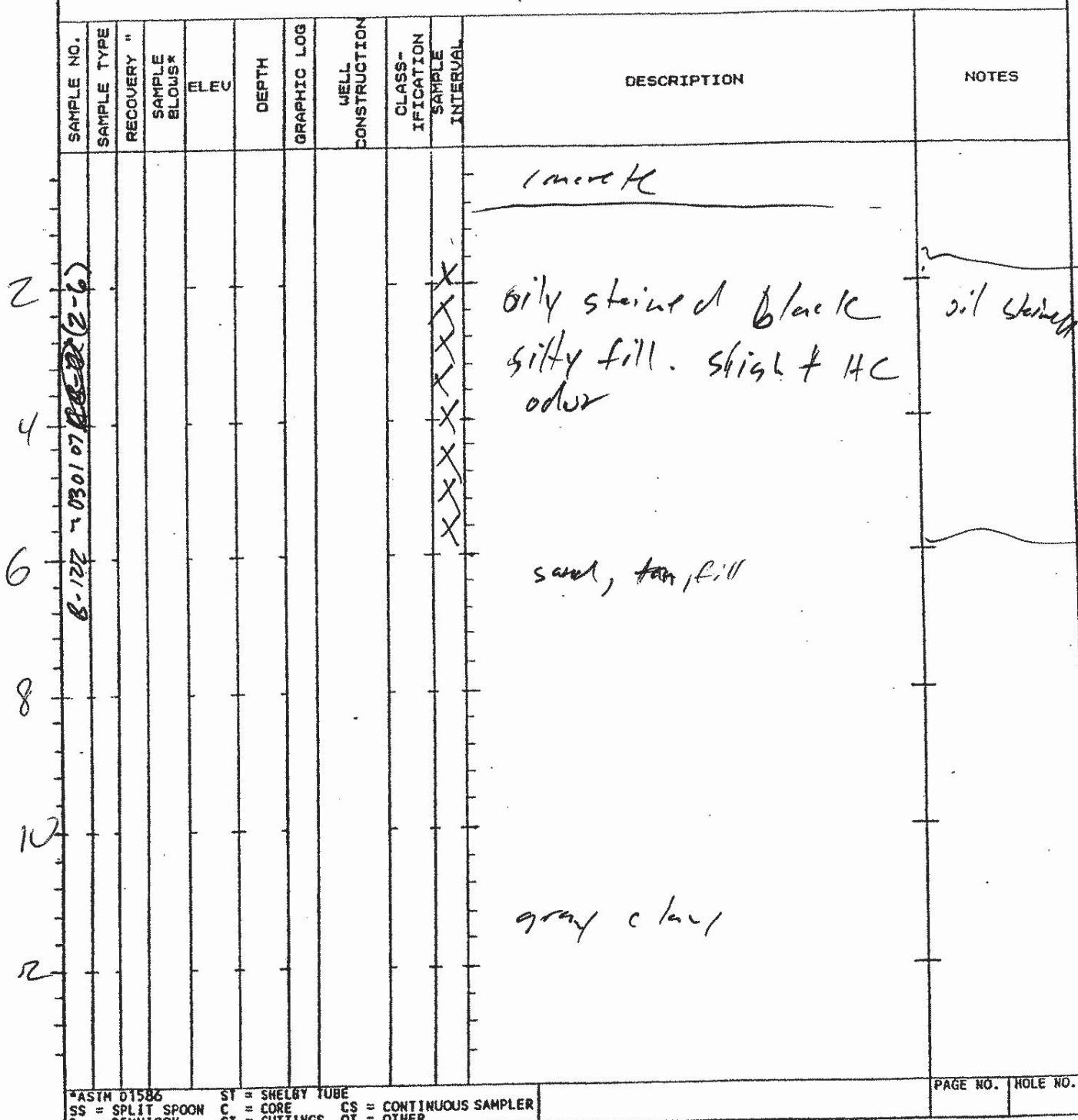
GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Engersol			PAGE NO.	HOLE NO.
START 3/1/07	FINISH 1115	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 10'	
LOGGER		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			



B-122



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
3/1/07	13/15		geo probe			12'
LOGGER Ran h		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-123



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/1/07	FINISH 1530	DRILLER	DRILL METHOD geophone	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
B-123-030102-(4-6)									concrete	
2									silty fill	
4									white bricks	
6								X	sand, tan	
8								X	stock fill, sand	
								X	HC strings vs, little odor	
								X		slight HC smell
									brown clay	
									gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-124



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.		
START 3/1/07	FINISH 1630	DRILLER Geoprobe	DRILL METHOD Ground Elevation	BOREHOLE DIAMETER 12"	WELL DIAMETER Depth/Elevation Groundwater - Date Measured	TOTAL DEPTH 12'			
LOGGER Reyn		TOP OF CASING ELEV.							
SAMPLE NO. B-124-030/07(4/6)	SAMPLE TYPE RECOVERY %	SAMPLE BLOWS*	ELEU	DEPTH	GRAPHIC LOG WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES	
2							concrete fl		
4							brick fragm/s		
6							brown clay / tan sand, mottled fill		
8							brown sand		
10							black sandy clay fill	possible HC striking	
12							brown soil		
							yellow sand		
							brown clay water, sand		
							brown clay		
							gray clay		
*ASTM D1586 SS = SPLIT SPOON D = DENNISON						ST = SHELBY TUBE C = CORE CT = CUTTINGS	CS = CONTINUOUS SAMPLER OT = OTHER	PAGE NO.	HOLE NO.

WESTON

B-124

GEOLOGIC DRILL LOG

PROJECT NAME AND LOCATION

PAGE NO. | HOLE NO.

GEOLOGIC DRILL LOG		PROJECT NAME AND LOCATION <i>Dugway</i>	FILE NO.			
START <i>3/2/07</i>	FINISH <i>0915</i>	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH <i>3'</i>
LOGGER <i>Rub</i>	TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

*ASTM D1586 ST = SHELBY TUBE
SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



5-126

PROJECT NAME AND LOCATION						PAGE NO.	HOLE NO.
GEOLOGIC DRILL LOG			Engerswell				
START 3/2/07	FINISH 1030	DRILLER	DRILL METHOD	BOREHOLE DIAMETER <i>open hole</i>	WELL DIAMETER	TOTAL DEPTH 3'	
LOGGER Rexh	TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWSX	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
Z									concrete	samped but no HC not in 3, b/c
2							X		sand fill	
4							X		lignite, refuse	
B-126-002-07(1-2)										

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-127



PROJECT NAME AND LOCATION					PAGE NO.	HOLE NO.																																																																																																																																																																								
GEOLOGIC DRILL LOG			Drill Method																																																																																																																																																																											
START 3/2/07	FINISH 1140	DRILLER	TOP OF CASING ELEV.	GROUND ELEVATION	BOREHOLE DIAMETER	WELL DIAMETER																																																																																																																																																																								
Logger Rauh			DEPTH/ELEVATION GROUNDWATER - DATE MEASURED																																																																																																																																																																											
<table border="1"> <thead> <tr> <th>SAMPLE NO.</th> <th>SAMPLE TYPE</th> <th>RECOVERY "</th> <th>SAMPLE BLOWS*</th> <th>ELEV.</th> <th>DEPTH</th> <th>GRAPHIC LOG</th> <th>WELL CONSTRUCTION</th> <th>CLASSIFICATION</th> <th>SAMPLE INTERVAL</th> <th>DESCRIPTION</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>8-127-030207(1-2)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>concrete fl</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>brown silty fill</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>red bricks</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>brown/black silty clay fill</td> <td>oily, stained</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>black silty clay fill</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>red bricks</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>brown sandy clay</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>dark brown sandy clay</td> <td>oily,</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>gray sandy clay</td> <td></td> </tr> <tr> <td></td> <td>water</td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>gray clay</td> <td></td> </tr> <tr> <td>12</td> <td></td> </tr> </tbody> </table>							SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION	SAMPLE INTERVAL	DESCRIPTION	NOTES	8-127-030207(1-2)										concrete fl		2							X			brown silty fill									X			red bricks									X			brown/black silty clay fill	oily, stained								X			black silty clay fill		4							X			red bricks									X			brown sandy clay									X			dark brown sandy clay	oily,	6							X					8										gray sandy clay												water		10										gray clay		12											
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION	SAMPLE INTERVAL	DESCRIPTION	NOTES																																																																																																																																																																			
8-127-030207(1-2)										concrete fl																																																																																																																																																																				
2							X			brown silty fill																																																																																																																																																																				
							X			red bricks																																																																																																																																																																				
							X			brown/black silty clay fill	oily, stained																																																																																																																																																																			
							X			black silty clay fill																																																																																																																																																																				
4							X			red bricks																																																																																																																																																																				
							X			brown sandy clay																																																																																																																																																																				
							X			dark brown sandy clay	oily,																																																																																																																																																																			
6							X																																																																																																																																																																							
8										gray sandy clay																																																																																																																																																																				
										water																																																																																																																																																																				
10										gray clay																																																																																																																																																																				
12																																																																																																																																																																														
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.																																																																																																																																																																			

B-128



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/21/07	FINISH 123(7)	DRILLER Rash	ORTEL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 10'
LOGGER	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWN	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete fl	
2									black silty silt some pebbles	
3							X-X	X-X	black clayey silt, some H/C structures	oily
4							X-X	X-X	brown silt	
5									gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION <i>Ingersoll</i>			PAGE NO.	HOLE NO.		
START 3/2/07	FINISH 1330	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH 12'			
LOGGER <i>Ron</i>		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									<i>concrete fl</i>	
4									<i>black / brown clayey silt fill, some rocks</i>	
6									<i>black, only silty sand fill</i>	<i>uvy</i>
8									<i>brown/black silty sand fill, oily</i>	
10									<i>brown sandy clay</i>	
12									<i>brown clay</i>	
									<i>gray clay</i>	
*ASTM D1586 SS = SPLIT SPOON ST = SHELBY TUBE D = DENNISON CT = CUTTINGS CS = CONTINUOUS SAMPLER OT = OTHER									PAGE NO.	HOLE NO.

B-130



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.
START 3/2/07	FINISH 1430	DRILLER	DRILL METHOD geoprobe		BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'		
LOGGER Paul		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. B-130-030207 (3-75)	SAMPLE TYPE RECOVERY "	SAMPLE ELEV. SAMPLE BLOWOUT	DEPTH ELEV.	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
2							brown to tan		
3							red bricks		
4							oily sand, free product + HC odor		
5									oil, product gas
6							white brick structure		
7							gray clay		
8									
9									
10									
11									
12									
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.			
START 3/6/07	FINISH 1530	DRILLER	DRILL METHOD rotatable	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12				
LOGGER Ruby	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY %	SAMPLE BLOWNS	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete fl	
2									red fill, wet, possibly oxidized	
3									some fr. II	
4									black oily, watery clay	oily
5									gravel	
6									water, oil produce +	oily, pocket
									PAGE NO.	HOLE NO.

B-131-P30207 (4-10)

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

B-132



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Ilgersoll				PAGE NO.	HOLE NO.		
START 3/5/07	FINISH 0830	DRILLER	DRILL METHOD Geo probe	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH 81				
LOGGER Raul		TOP OF CASTING ELEV.		GROUND ELEVATION		DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. B-132-030507(1-2)	SAMPLE TYPE 90%	RECOVERY % 90%	SAMPLE ELEVATION ELEV.	DEPTH GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES		
							concrete				
					X	black oily fill, some sand and rock fragments			oily		
					X	white gravel					
						black and brown clay fill					
						brown clay					
						gray clay					
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.

B-133



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Ingersoll				PAGE NO.	HOLE NO.	
START 3/15/07	FINISH 0430	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH 81			
LOGGER Rexh		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	DESCRIPTION		NOTES
2								concrete		
4								black silty clay fill. Dily Some bricks gravel, brown, some sand tan sand fill dark brown clay.		oily
6								Saturated (H) sandy silt brown		
8								tan - sandy clay brown clay gray clay		
*ASTM D1586 SS = SPLIT SPOON ST = SHELBY TUBE D = DENNISON C = CORE CT = CUTTINGS CS = CONTINUOUS SAMPLER OT = OTHER								PAGE NO.	HOLE NO.	



B-134

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.		
START 3/5/07	FINISH 0950	DRILLER	DRILL METHOD geo probe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81				
LOGGER Rawh	TOP of CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
									concrete fl top	
									X black silt, gravel, sand, clay	oily
									X fill materials	
									X black clay, some sand	
									X fragments	
									X brown sandy clay	
									X	
									brown sandy clay	
									water	
									gray clay	
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	



B-135

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Jagarso 11				PAGE NO.	HOLE NO.		
START 3/15/07	FINISH 10:45	DRILLER	DRILL METHOD geo probe	BOREHOLE DIAMETER		WELL DIAMETER	TOTAL DEPTH 81				
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	"	RECOVERY %	SAMPLE BLOWS	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1										concrete	
2										Kathy black clayey fill HC color some rocks	0.16
3										black/brown mottled clay	
4										gravel gray silty clay fill	
5										tan sandy silt, no fill	
6										gray clay	
7											
8											
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.



B-136

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.		
START 3/3/07	FINISH 1/3/07	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 41					
LOGGER Rauh	TOP OF CASTING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY *	SAMPLE BLOWS*	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES	
								- tan sand - black/brown silt/clay - fill, possible oil staining - tan sand - white sand/gravel - brown clay - tight, rounded te			
*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.

B-137



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ihseisoi				PAGE NO.	HOLE NO.	
START 3/5/01	FINISH 1240	DRILLER	DRILL METHOD GeoDrill	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 3.5'			
LOGGER		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE ELEV. BLOWUS*	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
								concrete fl tan sand brown silt tan limestone brown silty clay refuse, concrete fl	

B-137-030502((-1.5))

*ASTM D1586 ST = SHELBY TUBE
SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-138

GEOLOGIC DRILL LOG

PROJECT NAME AND LOCATION

Ingersoll

PAGE NO. HOLE NO.

START 3/5/07	FINISH 1320	DRILLER	DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81
LOGGER Ran		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE ELOWS*	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete	
2									Brown sandy fill, with gravel, brick fragment	
3									black oily fill, silty	
4									some HC odor	oily
5									brown sandy silt, with	
6									gray silty clay	
7									gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



8-139

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.
START 3/15/07	FINISH 1400	DRILLER Raul	DRILL METHOD Geophysical	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'	
LOGGER	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
B-139-03607 (1-1a)									concrete to	
									black clayey silt, some	
									rocks and brick fragments	
									brown silt, some black	
									Striations	
									red brick s	
									gray/red soil	
									orange sand, some brown	
									clay.	
									bilby	
									brown sand, water	
									red sand, water	
									gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DEHNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B140

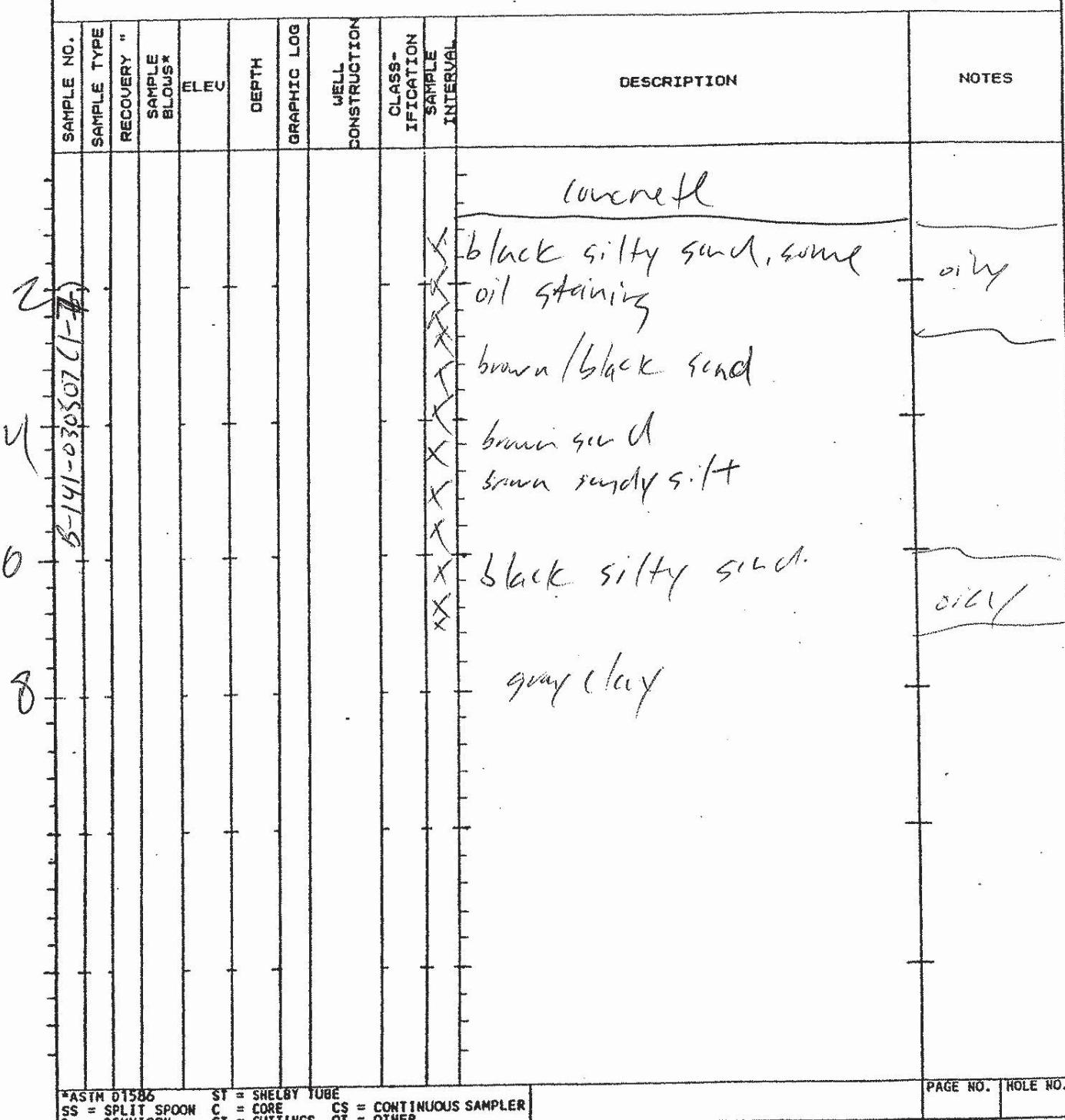


GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Insego II				PAGE NO.	HOLE NO.		
START 3/3/07	FINISH 1430	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81					
LOGGER Lacy	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWN*	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
2	calcareous		
4	X	black silty clay, mottled		
6	X	brown mottled clay		dry
7	X	black silty clay		
8	X	orange/brown sand, water		
B140-030507(1-5)	X	orange sand, some water		
	X	gray sand, brown silt, rocks		
	X	gray clay		
*ASTM D1586 SS = SPLIT SPOON D = DENNISON								ST = SHELBY TUBE CT = CUTTINGS	CS = CONTINUOUS SAMPLER OT = OTHER	PAGE NO.	HOLE NO.

B-141



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Dryersoll			PAGE NO.	HOLE NO.
START 3/15/07	FINISH 1530	DRILLER	DRILL METHOD geo probe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8	
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			



*ASTM D1586
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-142



GEOLOGIC DRILL LOG

PROJECT NAME AND LOCATION

PAGE NO. HOLE NO.

START	FINISH	DRILLER	DRILL METHOD	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH
3/5/07	1600		geoprobe			10'
LOGGER	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		
Ron						

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION	SAMPLE INTERVAL	DESCRIPTION	NOTES
64-1842-030302CH-6										concrete fl	
										black sandy silt oily, some rocks	oily
										tan sand, some clay	
										yellow sand, some black clay	
										brown silty soil	
										brown silty clay, some water	
										gray clay	

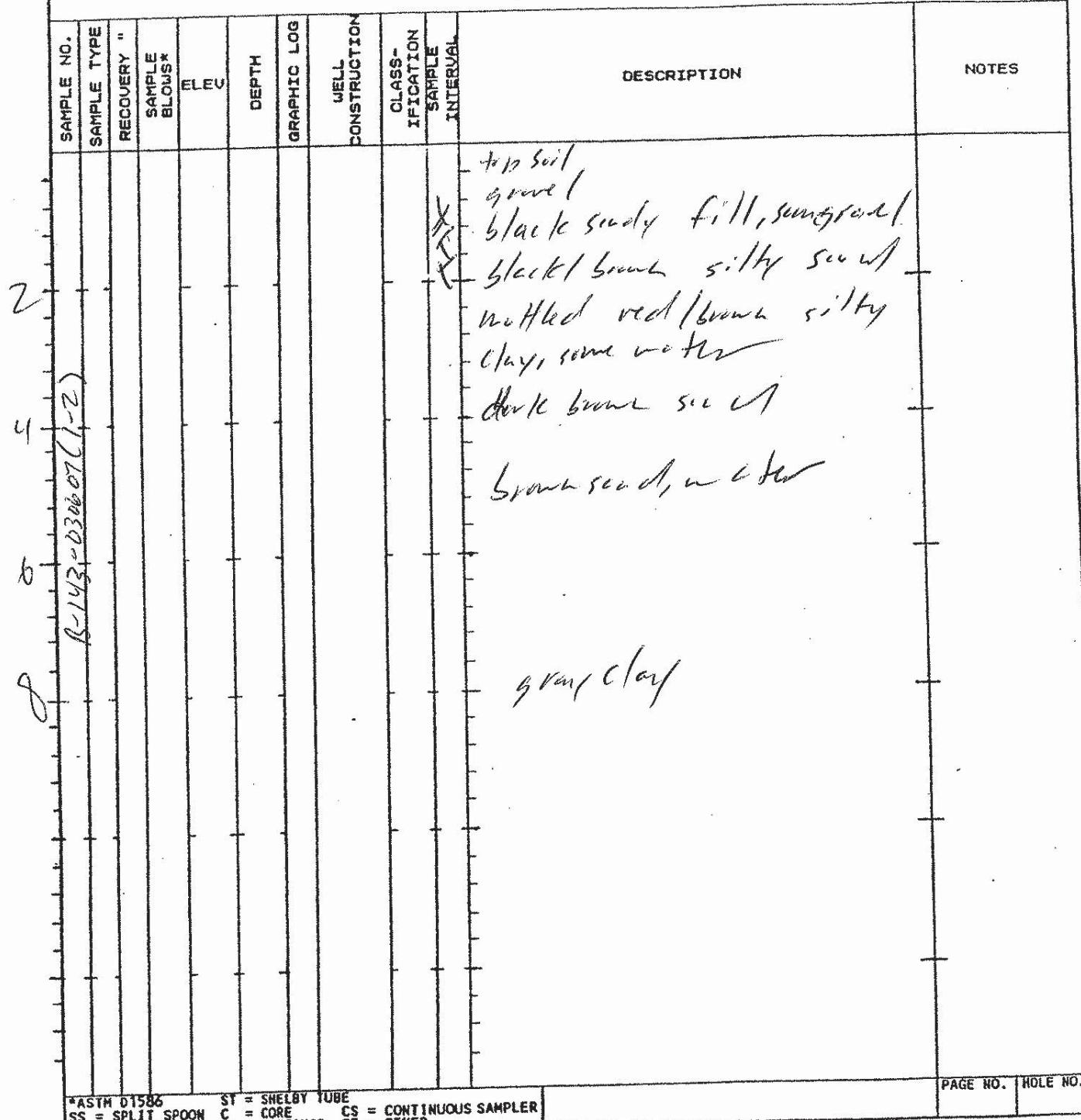
*ASTM D1586 ST = SHELBY TUBE
SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-143



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/6/07	FINISH 0800	DRILLER	DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'
LOGGER Raul		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-1014

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.	
START 3/6/07	FINISH 8:30	DRILLER	DRILL METHOD coring	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8			
LOGGER Rwl	TOP OF CASING ELEV.		GROUND/ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. 2-144-030607 (1-3)	SAMPLE TYPE RECOVERY "	SAMPLE ELEV. ELEV.	DEPTH GRAPHIC LOG	WELL CONSTRUCTION CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES		
2					grass / top soil black fill, white gravel black sand				
4					black/brown silty sand red clay, some black sand (good)				
6					black sand tan sandy water				
8					some clay wavy clay				
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.

B-145



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ingersoll</i>			PAGE NO.	HOLE NO.
START <i>3/6/07</i>	FINISH <i>0900</i>	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH <i>10 12'</i>	
LOGGER <i>Rach</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									-Black & top soil, some sand / gravel	
3									-gravel, black & ill	
4									-gray clay	
5									-red bricks, oxidized clay	
6									-yellowish fill, some gravel / brown sandy fill, some clay	
7									-tan sand	
8									-black/brown clay, some fine clts	
9									-brown sand, white	
10									-gray clay	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										
81										
82										
83										
84										
85										
86										
87										
88										
89										
90										
91										
92										
93										
94										
95										
96										
97										
98										
99										
100										

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-146



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Tageosol			PAGE NO.	HOLE NO.
START 3/6/07	FINISH 0930	DRILLER	DRILL METHOD Sloprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'	
LOGGER Rawh	TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWST	ELEU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									- brown silt, wet w/PL show melt	
4									- black / brown sandy clay fill	
6									- some brick fragm & sand gravel	
8									- gray silt /	
10									- brown clay fill, some gravel	
12									- gray silt /	
									- brown sandy water, sheen	oily
									- black sandy clay	
									- gray - silty	
									- light brown sandy clay	
									- some oil staining	oily
									- brown clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-147

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/6/07	FINISH 1050	DRILLER	DRILL METHOD 600 psi	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 121				
LOGGER RNL	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO. B-147-03627(1-E)	SAMPLE TYPE RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
								brown clay and gravel, some oxidized metal fragments grey gravel fill brown/acid grately yellow black shiny silty/clay brown sand black silty clay brown solid, water		
2										
4										
6										
8								brown (1m)		
10								gray (1m)		
12										

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-148



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ihsanson</i>				PAGE NO.	HOLE NO.		
START 3/6/07	FINISH 1030	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 10'				
LOGGER <i>Ruth</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									- white gravel	
3									- some water	
4									- brown silty fill, gravel	
5									- black gravel, silt fill, water possibly oil/bio-odor	
6									- white gravel /	
7									- brown/tan mottled clay /	
8									- black colored fill, rocks	
9									- brown silty	
10									- red silty clay, boulders	
11									- black silty, water	
12									- greenish brown sand, water, clay	
6-148-030607(2-6)									PAGE NO.	HOLE NO.
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										

B-140



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Tiger Soil				PAGE NO.	HOLE NO.		
START 3/6/07	FINISH 1130	DRILLER		DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8				
LOGGER Rock	TOP OF CASING ELEV.			GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO. B-140-030407C(1-5)	SAMPLE TYPE RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES	
							X	cement gravel			
							X	black/red fill. brick fragments. cinders			
							X	gray/black clay			
							X	black sand fill, possible			
							X	HC stain		HC stain	
							X	dark. brown sand			
							X	some sand, water			
							X	gray clay			
*ASTM D1586 SS = SPLIT SPOON D = DENNISON								ST = SNELBY TUBE CT = CUTTINGS	CS = CONTINUOUS SAMPLER OT = OTHER	PAGE NO.	HOLE NO.

B150



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.
START 3/6/07	FINISH 1155	DRILLER	DRILL METHOD geopulse	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'	
LOGGER Rauls	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
6-150-030607 (1-5)									- Asphalt + gray gravel	
									- black fill, some sand, rocks	
									- gravel, gray	
									- black with sand	w/w
									- black clay, some brown clay	
									brown clay	
									brown sand, white	
									brown clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B151



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.			
START 3/6/07	FINISH PC25	DRILLER Raul	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 121			
LOGGER Raul		TOP OF CASTING ELEV.	GROUND/ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. 6-151-030607 C-85	SAMPLE TYPE RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
								- concrete fl	
								- brown sand	
								- gray sand, limestone	
								- dark brown silty	
								- blocky oily sandy silt	oily
								- some tan silty	
								- gray and black clay	
								- some tan silty	
								- red silty fill, cinders	
								- brick fragments	
								- black and tan silty, HCS	
								- dark brown clay	
								- gray clay	

*ASTM D1586
 SS = SPLIT SPOON
 D = DENNISON
 ST = SHELDY TUBE
 C = CORE
 CT = CUTTINGS
 CS = CONTINUOUS SAMPLER
 OT = OTHER

PAGE NO. HOLE NO.



BS-152

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.		
START 3/6/07	FINISH 1310	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'			
LOGGER Rach	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
								- concrete	
								- red fill, tan sand	
								- red clay, tan sand	
								- black sandy silt, some gray sand	
								- tan sand, some red and black clay	
								- gray silty sand	
								- black silty clay	
								- red silty clay	
								- black/tan sand	
								- tan sand, water	
								- gray sand	
								- gray sand, sheen	
									sheen in SW
B-152 A-C02607 (1-8) B152B-0306.07 C10-11)							PAGE NO.	HOLE NO.	
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									

B-153



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.			
START 3/6/07	FINISH 1350	DRILLER Ingersoll		DRILL METHOD geopulse	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'			
LOGGER Lark		TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	"	RECOVERY %	SAMPLE ELEVATION *	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									- Asphalt	
2									silt, gray / gravel cylinders	
3									black clayey sand, some yellow rock fragments	city
4									dark gray sand	
5									tan sand	
6									water	
7									gray brown silty sand	
8									brown silty clay	
9									brown clay	
10									gray clay	
11										
12										

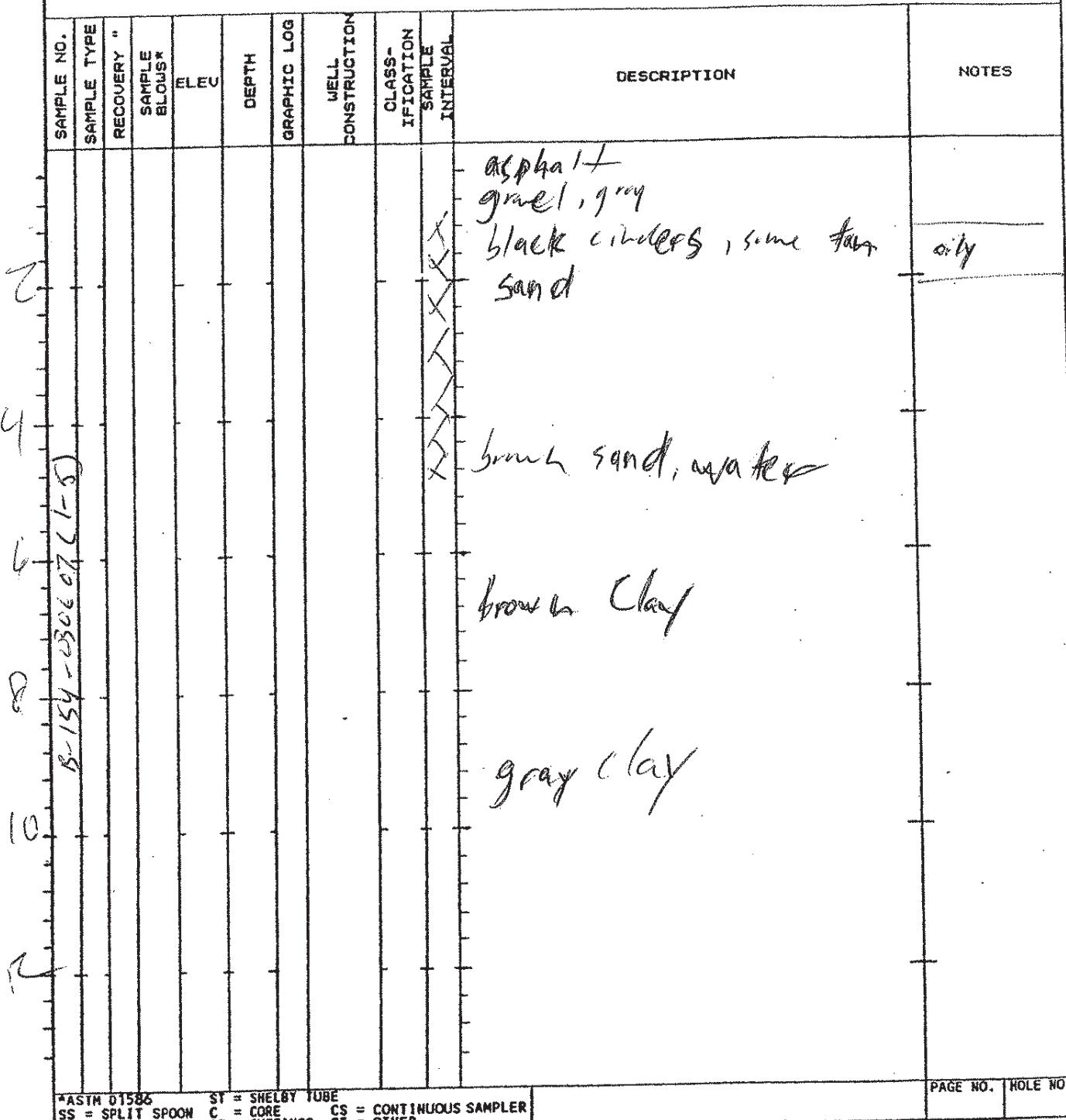
*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-154



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/6/07	FINISH 1430	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 121
LOGGER Ron L	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		



B155



PROJECT NAME AND LOCATION					PAGE NO.	HOLE NO.
GEOLOGIC DRILL LOG			Dyer sol /			
START 3/6/07	FINISH 16' 00'	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'
LOGGER Raw L	TOP OF CASTING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	"	RECOVERY "	SAMPLE BLOWS X	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1										- gravel	
2										brown silty sand	
3										black silty sand, some cinder, S	
4										dark gray clay	
5										black sand	
6										dark gray sand, water	
7										lo sand, water	
8										dark sand	
9										gray clay	
S-155-030607-(Z-B)											
ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER										PAGE NO.	HOLE NO.



B-156

PROJECT NAME AND LOCATION B-156 A-Q3C0107(12-8) B-156 B-Q3C0107(12-8)							PAGE NO.	HOLE NO.		
GEOLOGIC DRILL LOG										
START 16/07	FINISH 1530	DRILLER	DRILL METHOD percussion	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 16'				
LOGGER Karl		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
									- gray /	
2									- i. h. brown to sec of	
4									black sand, some circles	
6									dark gray clay	city
8									dark gray sand, water, oil	
10									brown sand, water	
12									dark gray silty sand	
									Some Sheen	
									gray clay	
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									PAGE NO.	HOLE NO.



B-157

PROJECT NAME AND LOCATION						PAGE NO.	HOLE NO.				
GEOLOGIC DRILL LOG			Ingersoll								
START 3/6/07	FINISH 1600'	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'					
LOGGER Ruth	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY %	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES	
1									gravel, gray		
2							X	cinders, fill, black oily			
							X	purple fill, sandy			
							X	pink fill, sandy, some gravel			
							X	black silty clay		oily	
							X	black silty clay, water, oil			
							X	some bricks			
							X	dark tan sand, water			
							X	dark sand			
							X	gray clay			
										PAGE NO.	HOLE NO.

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER



B-158

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ingersoll				PAGE NO.	HOLE NO.																															
START 8/1/07	FINISH 0900	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81																																	
LOGGER RanL	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED																																			
8-158-080707(1-7)																																							
2																																							
4																																							
6																																							
8																																							
10																																							
12																																							
<table border="1"> <tr> <td>*ASTM D1586</td> <td>ST = SNEEBY TUBE</td> <td colspan="3"></td> <td colspan="3"></td> <td>PAGE NO.</td> <td>HOLE NO.</td> </tr> <tr> <td>SS = SPLIT SPOON</td> <td>C = CORE</td> <td colspan="3">CS = CONTINUOUS SAMPLER</td> <td colspan="3"></td> <td></td> <td></td> </tr> <tr> <td>D = DENNISON</td> <td>CT = CUTTINGS</td> <td colspan="3">OT = OTHER</td> <td colspan="3"></td> <td></td> <td></td> </tr> </table>								*ASTM D1586	ST = SNEEBY TUBE							PAGE NO.	HOLE NO.	SS = SPLIT SPOON	C = CORE	CS = CONTINUOUS SAMPLER								D = DENNISON	CT = CUTTINGS	OT = OTHER									
*ASTM D1586	ST = SNEEBY TUBE							PAGE NO.	HOLE NO.																														
SS = SPLIT SPOON	C = CORE	CS = CONTINUOUS SAMPLER																																					
D = DENNISON	CT = CUTTINGS	OT = OTHER																																					



B-159

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.		
START 3/1/07	FINISH 0200	DRILLER		DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'		
LOGGER Raul	TOP OF CASING ELEV.			GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				
SAMPLE NO. B-159-030707(25)	SAMPLE TYPE RECCOVERY %	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
4								asphalt / gravel	
6								brown sand, possible oil	oil
8								black sand, clay, oil	
10								brown sand	
12								tan sand	
								brown sand, water	
								brown clay	
								gray clay	
*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.



B160

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.	
START 3/7/07	FINISH 1030	DRILLER		DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8'		
LOGGER Rarl		TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				
SAMPLE NO.	SAMPLE TYPE RECOVERY "	SAMPLE BLOWN	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2								concrete	
4								white sand, some silt	
6								yellow sand, some slack clay	
8								black sand	
10								tan sand, w/ fl	
12								gray sand, w/ fl	
B-160-030707 (2-4) *ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.

B-161



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ithaca Soil		PAGE NO.	HOLE NO.
START 3/7/07	FINISH 1136'	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 121'
LOGGER Rash		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
B-161-030707(224)										
8008									- gravel X black sand, some silt IC fragments X gold sand, mostly gray sand, water, some oxidations brown soil, water gray sand, water gray clay	

*ASTM D1586
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B162

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.				
START 3/16/01	FINISH 1215	DRILLER	DRILL METHOD Geopwheel	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8					
LOGGER Raul		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED							
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES	
2	.	.	.	.	.	.	.	.	concrete	
4	.	.	.	.	.	.	.	X	black sandy fill, some rock fragments + s	
6	.	.	.	.	.	.	.	X	brown/dark brown sand, water	
8	.	.	.	.	.	.	.		dark brown clay	
10	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.
B-162-030707(2-6) 50%										PAGE NO.	HOLE NO.
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER											

R-163



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION <i>Ihsenro II</i>		PAGE NO.	HOLE NO.
START 3/7/07	FINISH 1245	DRILLER	DRILL METHOD <i>geoprobe</i>	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 721
LOGGER <i>Rawl</i>	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED		

SAMPLE NO.	SAMPLE TYPE	"	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
B-163-030707 (2/6)									- cohene K	
									brown silty sand silt	
									black clay with some tan	
									tan	
									black gray mottled clay	c.i.y
									some brick fragments	
									small sand	
									black sand, oil staining	
									brown sand	
									black sand	c.i.y
									brown sand	
									gray clay	

*ASTM D1586 ST = SNEEBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-164



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/1/07	FINISH BCU	DRILLER		DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8			
LOGGER RwL	TOP OF CASING ELEV.			GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. B-164-030707(4-6)	SAMPLE TYPE RECOVERY "	SAMPLE BLOWS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
2								- Glare 1		
4								for recovery		
6								black silty sand, oily		oily
8								brown sand in water		
10								gray clay		
12										
*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	

B-165

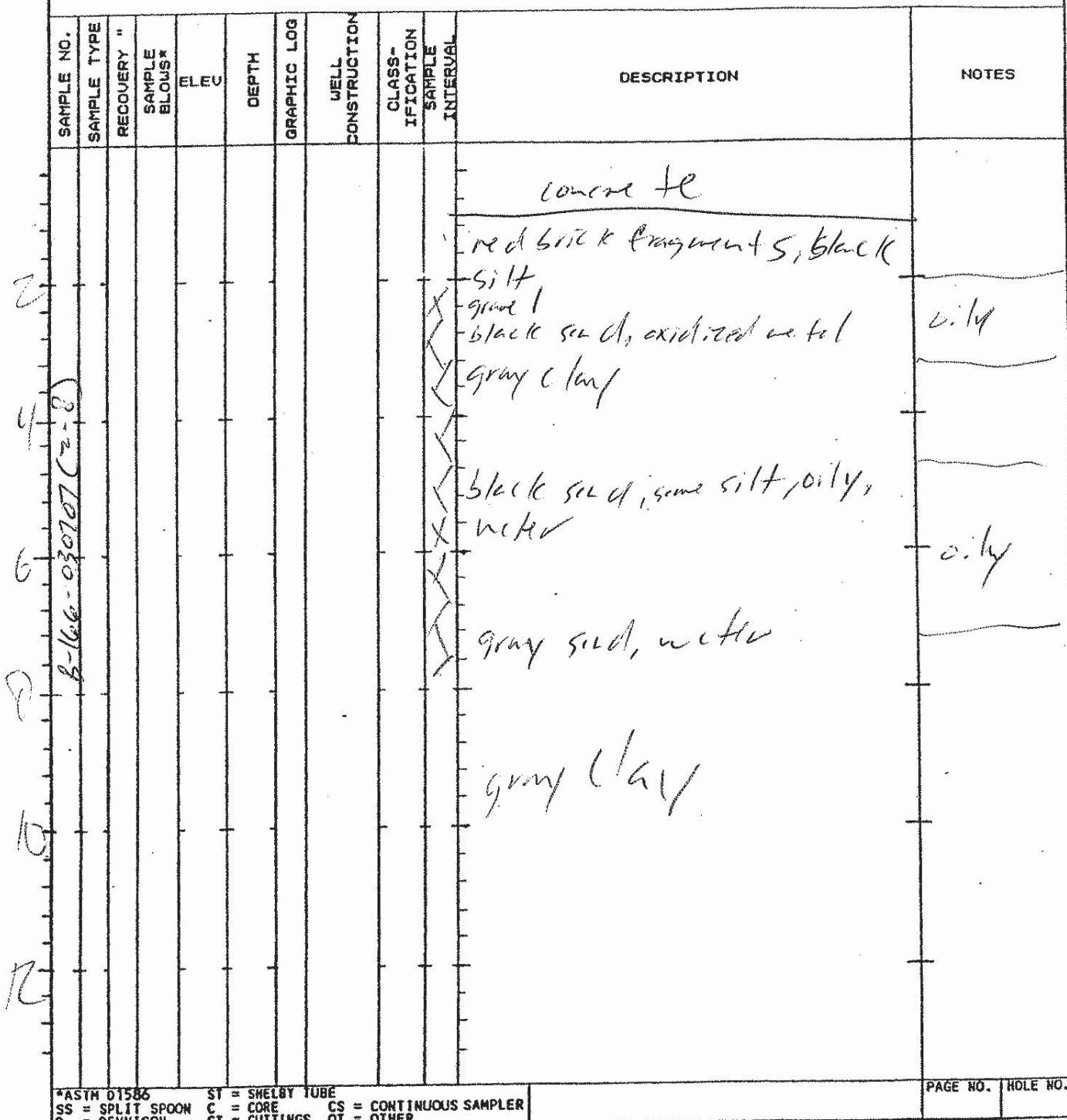


GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/1/07	FINISH 1430	DRILLER		DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12			
LOGGER Rwlh		TOP OF CASTING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	RECOVERY %	SAMPLE BLOWOUT	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									concrete	
3									gray clay	
4									red sand; brick fragments	
5									water, gravel (large), oil	oil
6									some clay, dark gray	
7									gravel, oil	
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	

B-166



GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ingersoll			PAGE NO.	HOLE NO.
START 3/7/07	FINISH 1530	DRILLER "	DRILL METHOD Auger	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12	
LOGGER Ran L	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B167



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/16/07	FINISH 600	DRILLER	DTTEL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 3	
LOGGER RinL	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION	SAMPLE INTERVAL	DESCRIPTION	NOTES
2										concrete fl	
3										gravel	
4										fl. silt &	
5										gray clay	
6										refused, concrete fl	
7											
8											
9											
10											
11											
12											
B-167-030707(0-3)											

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-168

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Ihlerso 11			PAGE NO.	HOLE NO.
START 3/8/07	FINISH 0830	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'	
LOGGER Raulh		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete	
2									X black sand, some silt, oily	oily
3									X red brick fragments	
4									X tan sand, some black sand	
5									X black sand	
6									X brown sand, water	
7									X tan sand, water	
8									brown sand, water	
9									dark brown sand	
10									gray clay	
11										
12										

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-169

PROJECT NAME AND LOCATION						PAGE NO.	HOLE NO.			
GEOLOGIC DRILL LOG			JUSCO 5011							
START 3/8/07	FINISH 0930	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81				
LOGGER Rush		TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO.	SAMPLE TYPE	RECOVERY *	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete to	
2									black cinders / fill sand brick fragments	
3									red sand, water, oxidized.	
4										
5										
6								X	black gravel, oil, water	oily product
7								X		
8								X		
9										
10										
11										
12										
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	



B-170

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/8/07	FINISH 10/15	DRILLER	DRILL METHOD geoprobe		BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12			
LOGGER Rush	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									concrete	
2									black sand/cinders, small amount of oil	oily
4									brown sand gray clay black sand	
6									brownish red oxidized sand, water	oily
8									dark brown sand, water	
10									tan sand, water	
12									dark brown sand	
									gray clay	
*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	



B171

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/8/07	FINISH 110	DRILLER	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12				
LOGGER Rock		TOP OF CASING ELEV.	GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY *	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									concrete sl	
4									black sand, oily, some bricks	oily contaminant
6									brick fragm & black sand	
8									brown silty sand	
10									dark brown sand, w/ oil HC staining, gray	
12									gray gravel	
									black sand, w/ oil	
									brown sand watered	
									gray clay	
*ASTM D1586 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER								PAGE NO.	HOLE NO.	



B-172

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.		
START 3/8/07	FINISH 1200	DRILLER	DRILL METHOD Geoprobe		BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12		
LOGGER Reh	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED					
SAMPLE NO. B-172-070807(2-8)	SAMPLE TYPE =	RECOVERY % SAMPLE BLOWS*	ELEU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2								yellow & brown sand, some black cinder, s	possibly oil staining
4								lime stone gravel	
6								red silty sand, some black	
8								Some small gravel	
10								black / tan sand, water	
12								yellow sand, water	
								brown sand, saturated w/H ₂ O	
								gray, brown, black mottled	
								silty sand	
								brown sand, water	
								gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.

B-173



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/8/07	FINISH 1520	DRILLER	DRILL METHOD Propose	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 8				
LOGGER Rack	TOP OF CASTING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO. B-173-030807(25)	SAMPLE TYPE RECOVERY "	SAMPLE BLOCKS X	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION		NOTES
								gravel, fill, rocks		
2								X-black circles, possibly X-HC staining, silty		<u>possibly HC shls</u>
4								X-sandy clay, black, circles		
6								reddish brown sandy chy		
8								sandy clay		
								PAGE NO.	HOLE NO.	

*ASTM D1585 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER



B-174

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.	
START 3/8/07	FINISH 1420	DRILLER	DRILL METHOD geoprobe		BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 6'			
LOGGER Rush	TOP of CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED						
SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
6-174-030807(Q-6)									X-black gravel, cinders, some rocks and sand and clay	oily no Free product
2									X-gray gravel	
4									X-black cinders, sand, sand	
6									X-HC Odor	
8									X-refuse	
10										
12										
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									PAGE NO.	HOLE NO.

B-175



GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION		PAGE NO.	HOLE NO.
START 3/8/07	FINISH 148	DRILLER Rock	DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 121	
LOGGER	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
1									-Asphlt	
2									white limestone gravel	
3							X		reddish silt or sand, some shale	
4							X		black silt	
5							X		red sand, oxidized, some gray. (lai)	
6							X		black sand, HC stain, odor	oil
7							X		brown sand, HC odor	
8							X		yellow sand, water	
9							X		brown sand, water	
10							X		brown/black sand, water	
11							X		gray clay	

*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-176

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION			PAGE NO.	HOLE NO.
START 3/8/07	FINISH 1545	DRILLER Rark	DRILL METHOD geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12		
LOGGER	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				

SAMPLE NO.	SAMPLE TYPE	RECOVERY *	SAMPLE BLOWS*	ELEVU	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									concrete	
3									gravel	
4									X-black cinders, fill, some clay and brick fragments	
5									X-brown block soil	
6									X-red bricks	
7									brown sandstone	
8									gray sand, water	
9									brown sandy clay	
10									brown clay	
11									gray clay	
B-176-032807(2-4)										
*ASTM D1586 ST = SHELBY TUBE SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER D = DENNISON CT = CUTTINGS OT = OTHER									PAGE NO.	HOLE NO.



B-177

PROJECT NAME AND LOCATION				PAGE NO.	HOLE NO.
GEOLOGIC DRILL LOG		Iverso 11			
START 3/9/07	FINISH 0700	DRILLER	DRILL METHOD Geopulse	BOREHOLE DIAMETER	WELL DIAMETER
LOGGER Raul	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED 8'	

SAMPLE NO.	SAMPLE TYPE	RECOVERY *	SAMPLE BELOW *	ELEC	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
									- gray gravel	
									brown sand	
							X	black sand, some brick		
							X	fragments, some gravel, some		
							X	gray clay		possibly HC staining
							X	black/ten silty sand, some		
							X	gray clay		
								brown sand, wetter		
								dark brown sand, wetter		
								tan sand, wetter		
<i>B-177-0309-07(a-5)</i>										
*ASTM D1586	ST = SHELBY TUBE									
SS = SPLIT SPOON	C = CORE	CS = CONTINUOUS SAMPLER								
D = DENNISON	CT = CUTTINGS	OT = OTHER								
										PAGE NO. HOLE NO.

WESTON

B-178

GEOLOGIC DRILL LOG				PROJECT NAME AND LOCATION Thorsell			PAGE NO.	HOLE NO.
START 3/19/07	FINISH 0745	DRILLER	DRILL METHOD Geoprobe	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 12'		
LOGGER Randy	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED				

SAMPLE NO.	SAMPLE TYPE	RECOVERY "	SAMPLE BLOWS*	ELEV.	DEPTH	GRAPHIC LOG	WELL CONSTRUCTION	CLASSIFICATION SAMPLE INTERVAL	DESCRIPTION	NOTES
2									-black sand, some sand, rocks, gray gravel	
3									-black sand, some rocks and brick fragments	
4									X - white sand	
5									X - black sand of pink rocks	
6									X - dark brown sand	
7									X - black sand, possible HC	possibly HC streak
8									brown sandstone	
9									dark brown sand	
10									yellow sand, mud	
11									brown clay	
B-178-030907(3~6)										

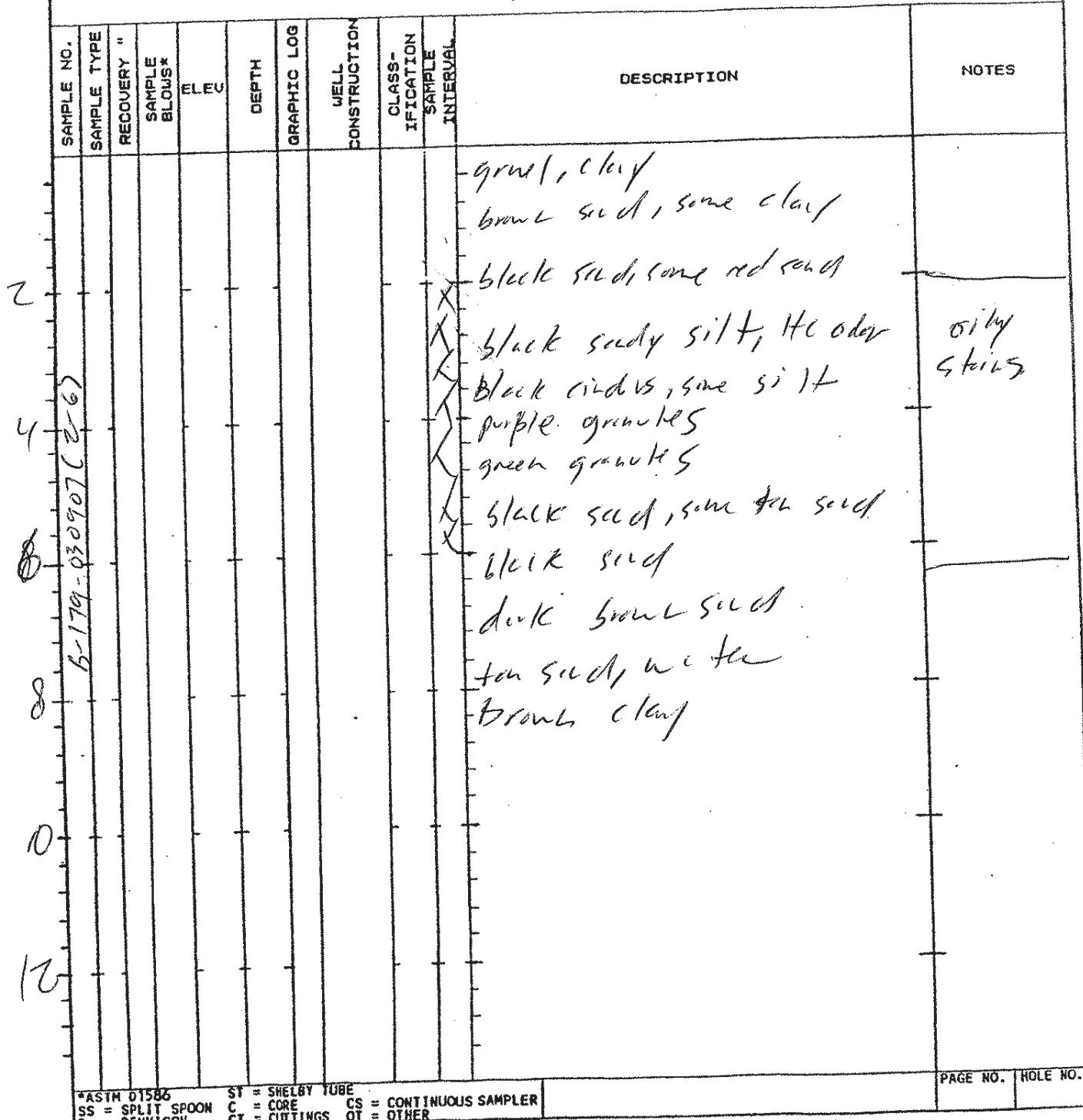
*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

PAGE NO. HOLE NO.



B-179

GEOLOGIC DRILL LOG			PROJECT NAME AND LOCATION Inger Soil			PAGE NO.	HOLE NO.
START 3/9/07	FINISH 08415	DRILLER	DRILL METHOD Geopulse	BOREHOLE DIAMETER	WELL DIAMETER	TOTAL DEPTH 81	
LOGGER Ran L	TOP OF CASING ELEV.		GROUND ELEVATION	DEPTH/ELEVATION GROUNDWATER - DATE MEASURED			



*ASTM D1586 ST = SHELBY TUBE
 SS = SPLIT SPOON C = CORE CS = CONTINUOUS SAMPLER
 D = DENNISON CT = CUTTINGS OT = OTHER

ATTACHMENT E
ANALYTICAL RESULTS



March 06, 2007

Aaron Roski
Environmental Quality Management, Inc.
1800 Carillon Boulevard
Cincinnati, OH 45240

Work Order No.: ME0702811

RE: Ingersoll / Chicago, IL
Dear Aaron Roski:

Microbac Laboratories, Inc. received 7 samples on 2/27/2007 4:50:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted. This report includes the numbered pages as well as the Cooler Inspection Report and Chain of Custody form(s).

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.


Ronald J. Misiunas
Client Services Manager

Enclosures

For the purpose of the Shaw Phase I ESA, select pages from the original referenced document have been removed and are not included within this hard copy Report.

A complete copy is included in the electronic version of the Report.

